YAMAHA

# SR230

## Owner's / Operator's Manual

2004

# TO THE OWNER

Thank you for choosing a Yamaha Sport Boat. This Owner's Manual contains information you will need for proper operation, maintenance, and care. A thorough understanding of these simple instructions will help you to obtain maximum enjoyment from your new Yamaha. If you have any questions about the operation or maintenance of your Sport Boat, please consult a Yamaha dealer.

Because Yamaha has a policy of continuing product improvement, this product may not be exactly as described in this Owner's Manual. Specifications are subject to change without notice.

This manual should be considered a permanent part of this Sport Boat and should remain with it even if the boat is subsequently sold.

**IMPORTANT MANUAL INFORMATION:**
In this manual, information of particular importance is distinguished in the following ways:

The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

**⚠WARNING**

**Failure to follow WARNING instructions could result in severe injury or death to the machine operator, a bystander, or a person inspecting or repairing the Sport Boat.**

**CAUTION:**

**A CAUTION indicates special precautions that must be taken to avoid damage to the Sport Boat.**

**NOTE:** A NOTE provides key information to make procedures easier or clearer.

**SR230 SPORT BOAT**
**SRT1000B/BC**
**OWNER'S/OPERATOR'S MANUAL**

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# SR230

## SPORT BOAT


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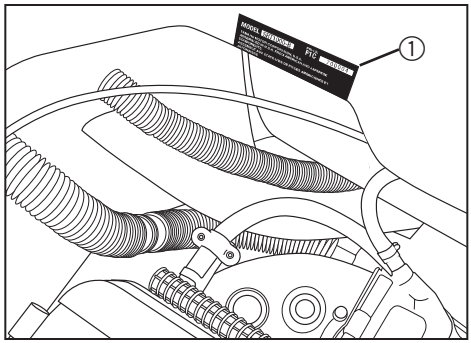
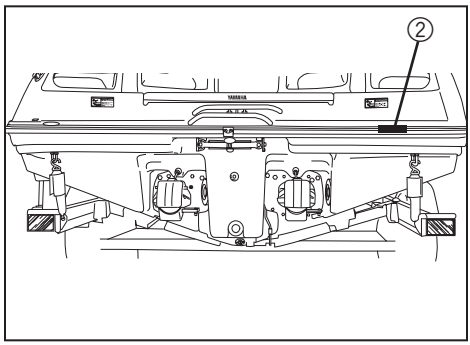
# IDENTIFICATION NUMBER RECORDS

Record your Primary I.D., H.I.N., and engine numbers in the spaces provided to assist you in ordering spare parts from your Yamaha Sport Boat dealer. Also record and keep these I.D. numbers in a separate place in case your Sport Boat is stolen.



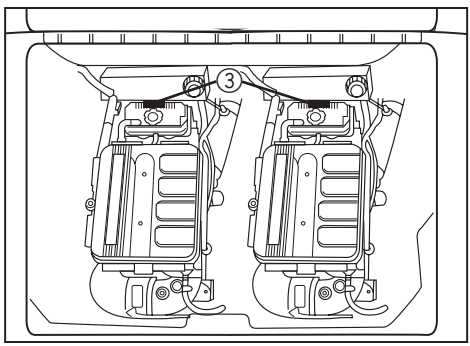

## PRIMARY I.D. NUMBER

The Primary I.D. number is stamped on a label ① attached to the inside of the engine compartment.




## HULL IDENTIFICATION NUMBER (H.I.N.)

The H.I.N. ② is stamped into the hull on the right rear corner.




## ENGINE SERIAL NUMBER

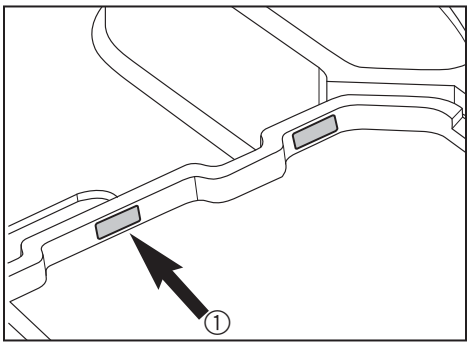
PORT

STARBOARD

The Engine Serial Numbers are stamped on a label ③ attached to the top of the engine oil tank.

# STAR LABELS

This watercraft is labeled in California with a California Air Resources Board (CARB) star label ①. See below for a desciption of your particular label.




**ONE STAR - LOW EMISSION**

The one-star label identifies engines that meet the Air Resources Board's 2001 exhaust emission standards. Engines meeting these standards have 75% lower emissions than conventional carbureted two-stroke engines. These engines are equivalent to the U.S. EPA's 2006 standards for marine engines.

**TWO STARS - VERY LOW EMISSION**

The two-star label identifies engines that meet the Air Resources Board's 2004 exhaust emission standards. Engines meeting these standards have 20% lower emissions that One Star-Low-Emission engines.

**THREE STARS - ULTRA LOW EMISSION**

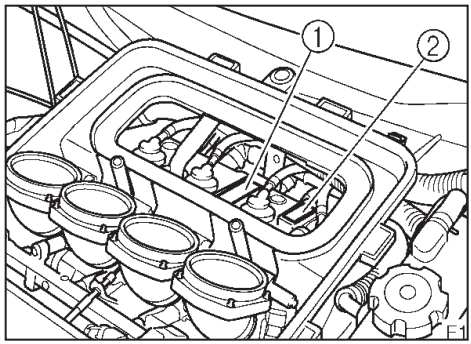
The three-star label identifies engines that meet the Air Resources Board's 2008 exhaust emission standards. Engines meeting these standards have 65% lower emissions than One Star-Low-Emission engines.

# EMISSION CONTROL INFORMATION

This engine family conforms to U.S. EPA regulations for marine SI engines.

## APPROVAL LABEL OF EMISSION CONTROL CERTIFICATE

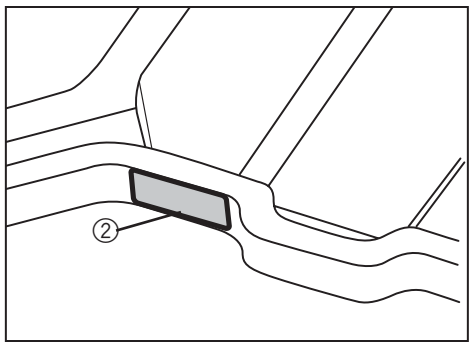
This label is attached to the electrical box.




① Emission control information label

**EMISSION CONTROL INFORMATION**
ENGINE FAMILY : [ _ _ _ _ _ _ _ ]
THIS ENGINE CONFORMS TO U.S. EPA REGULATIONS FOR MARINE S1 ENGINES
FELs [ _ _ _ _ ] g/low - hr
SPARK PLUG GAP (mm) : [ _ _ _ _ ]
TROLLING SPEED : [ _ _ _ _ ] rpm
YAMAHA MOTOR CO., CO, LTD. [ _ _ _ ]

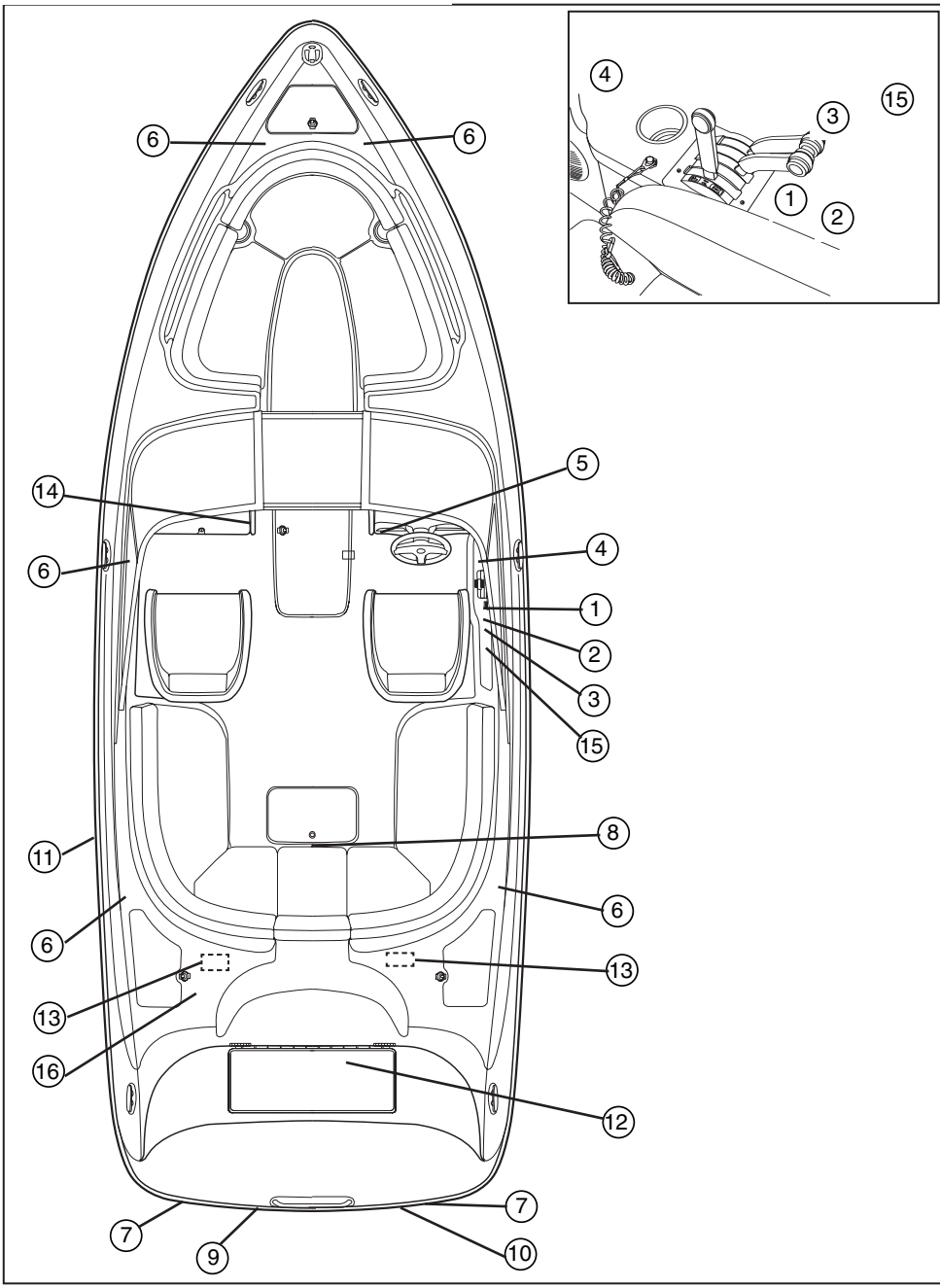
## MANUFACTURED DATE LABEL




② Manufactured date label

**YAMAHA**
**Manufactured:** □□□□□□

## IMPORTANT LABELS



①

**⚠ WARNING**

**To reduce the risk of SEVERE INJURY OR DEATH:**

**WEAR A COAST GUARD-APPROVED PERSONAL FLOTATION DEVICE (PFD).**

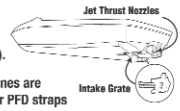
**KNOW BOATING LAWS. Yamaha recommends a minimum operator age of 16 years old. Know the operator age and training requirements for your state. A boating safety course is recommended and may be required in your state.**

**ATTACH ENGINE SHUT-OFF CORD (LANYARD) to your PFD and keep it free of controls so the engines stop if the operator leaves the helm. Failure to attach engine shut-off cord could result in a runaway boat if operator is ejected. After operation, remove engine shut-off cord and keys from boat to avoid unauthorized use by children or others.**

**PUT THROTTLES IN IDLE POSITION AND SHIFT TO NEUTRAL before starting engines.**

**OPERATE WITHIN YOUR LIMITS AND AVOID AGGRESSIVE MANEUVERS to reduce the risk of loss of control, ejection, and collision. This is a high-performance boat - not a toy. Sharp turns or jumping wakes or waves can increase the risk of back/spinal injury (paralysis), facial injuries, and broken legs, ankles, and other bones. Do not jump wakes or waves.**

**DO NOT APPLY THROTTLE WHEN ANYONE IS AT REAR OF BOAT - turn engines off while boarding from the rear, using the swim platform, or when swimming behind the boat. Water and/or debris exiting the jet thrust nozzles can cause severe injury, including severe internal injuries if water is forced into body cavities (rectum and vagina).**




**KEEP AWAY FROM INTAKE GRATES while engines are on. Items such as long hair, loose clothing, or PFD straps can become entangled in moving parts resulting in severe injury or drowning.**

**NEVER RIDE AFTER CONSUMING DRUGS OR ALCOHOL.**

**READ AND FOLLOW OWNER'S MANUAL.**

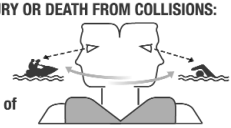
YAMAHA F0R-U416C-11

②

**⚠ WARNING**

**To reduce the risk of SEVERE INJURY OR DEATH FROM COLLISIONS:**

**SCAN CONSTANTLY for people, objects, and other watercraft. Be alert for conditions that limit your visibility or block your vision of others.**



**OPERATE DEFENSIVELY at safe speeds and keep a safe distance from people, objects, and other watercraft.**

- **Do not follow directly behind other watercraft.**
- **Do not go near others to spray or splash them with water.**
- **Avoid sharp turns or other maneuvers that make it hard for others to avoid you or understand where you are going.**
- **Avoid areas with submerged objects or shallow water.**

**TAKE EARLY ACTION to avoid collisions. Remember, boats do not have brakes.**

**DO NOT PULL THROTTLE LEVERS BACK TO IDLE WHEN TRYING TO STEER away from objects - you need throttle to steer. Always check throttle, shift, and steering controls for proper operation before starting boat.**

**Follow navigation rules and state and local laws that apply to your boat. See Owner's Manual for more information.**

YAMAHA F0R-U416C-21

③

**⚠ WARNING**

**REVERSE SHIFT LEVER OPERATION**

- **Shift only while engine is idling or off.**
- **Reverse is for low speed maneuvering only.**
- **Do not use reverse function to slow down or stop boat as it could cause you to lose control, be ejected, or impact boat surfaces.**

YAMAHA F0R-U41DS-00

④

**⚠ WARNING**

**Shut off engines when anyone is on the extended swim step.**

**Exhaust gases coming from underneath it contain carbon monoxide, a colorless, odorless gas which may cause brain damage or death when inhaled. Symptoms include nausea, dizziness, and drowsiness.**

YAMAHA F0R-U41SP-00

⑤

**⚠ WARNING**

**Gasoline vapors can explode.**

**Operate blower for at least 4 minutes and check engine compartment bilge for gasoline vapors before starting engines.**

**Do not start engines if there is a fuel leak or loose electrical connection.**

YAMAHA GP1-U416F-10

⑥

**⚠ WARNING**

**Falling Hazard.**

**Falling on the deck or overboard may cause injury or death.**

**Hold on to the grips, remain seated and place feet on the deck when the boat is in motion.**

YAMAHA GP1-U418C-20

⑦

**⚠ WARNING**

**Falling Hazard.**

**Falling on the deck or overboard may cause injury or death.**

**Do not sit here when the boat is moving.**

F1C-U418C-00

8

**⚠ WARNING**

Leaking fuel is a fire and explosion hazard.
Inspect system at least annually.

YAMAHA GP1-U419D-10

9

**⚠ WARNING**

**Stay away from the extended swim step while the engines are running.**

**Exhaust gases coming from underneath it contain carbon monoxide, a colorless, odorless gas which may cause brain damage or death when inhaled. Symptoms include nausea, dizziness, and drowsiness.**

YAMAHA F0R-U415R-00

10

**⚠ WARNING**

**Severe internal injuries can occur if water is forced into body cavities (rectum and vagina) as a result of being near jet thrust nozzles.**

- **Do not board from rear, use swim platform, or swim behind boat if engines are running.**
- **When waterskiing, wear a wet suit bottom or clothing that provides equivalent protection against forceful water entry from being near jet thrust nozzles or falling into the water. Normal swimwear does not protect against forceful water entry into body cavities (see Owner's Manual).**

**Do not sit on swim platform or padded engine hatch when engines are running.**

**You could fall overboard.**

YAMAHA F0R-U416G-11

11

**⚠ WARNING**

Gasoline is highly flammable and explosive. A fire or explosion can cause severe injury or death. Shut off engine. Refuel in well ventilated area away from flames or sparks. Do not smoke. Avoid spilling gasoline. Wipe up spilled gasoline immediately.

**UNLEADED REGULAR GASOLINE ONLY**

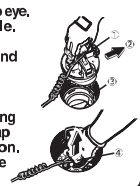
YAMAHA F0R-U416B-10

12

**CAUTION**

TO AVOID LOSS OF PERFORMANCE OR BOAT DAMAGE CAUSED BY LOST ACCESS PORT CAP:

- Be sure retaining cord is securely attached to cap and strap eye.
- Press Release button firmly, then lift cap by handle. Do not lift cap with cord.
- Before reinstalling cap in access port, clean off any sand or other foreign matter on cap or port surfaces.
- Insert cap so that its projection ①, faces the bow ②, and lines up with the slot ③ in the access port wall.
- Press the T-handle down firmly to lock cap in place. If a strong pull will move the handle ④, it is not locked securely - the cap could be forced out by water pressure during operation.
- If water is pooled on top of cap after boat use, remove cap to let water drain, then reinstall cap as above.




**⚠ WARNING**

SEVERE INJURY OR DEATH MAY RESULT IF YOU IGNORE ANY OF THE FOLLOWING.

- Turn off and remove both ignition keys, remove lanyard, and wait for all movement to stop before removing access port caps.
- Never override interlocks to run engines with hatch open.

YAMAHA F0R-U411D-00

⑬

WARNING
Do not touch or remove electrical parts when starting or running engine.
YAMAHA
6R7-83623-40

⑭

MAXIMUM CAPACITIES
10 PERSONS OR 1800 LBS
3500 LBS. PERSONS, GEAR
THIS BOAT COMPLIES WITH U.S. COAST GUARD SAFETY STANDARDS IN EFFECT ON THE DATE OF CERTIFICATION
MANUFACTURER:
TENNESSEE WATERCRAFT
VONORE, TN
MODEL:
SRT1000
DESIGN COMPLIANCE WITH NMMA REQUIREMENTS BELOW IS VERIFIED. MFGR RESPONSIBLE FOR PRODUCTION CONTROL
LOAD CAPACITY * COMPARTMENT VENTILATION
STEERING, FUEL AND ELECTRICAL SYSTEMS
NAVIGATION LIGHTS * MANEUVERABILITY
NMMA CERTIFIED
NATIONAL MARINE MANUFACTURERS ASSN.

⑮

FIRE EXTINGUISHER
• Open canister to remove extinguisher.
YAMAHA
F1C-U419B-00

⑯

MODEL
PRI-I.D.
F1C
YAMAHA MOTOR CORPORATION, U.S.A.
ASSEMBLED IN U.S.A. FROM AMERICAN AND JAPANESE COMPONENTS.
ASSEMBLÉ AUX ÉTATS-UNIS DE PIÈCES AMÉRICAINES ET JAPONAISES.

# ⚠ SAFETY INFORMATION

**The safe use and operation of this boat is dependent upon the use of proper operating techniques, as well as upon the common sense, good judgment, and expertise of the operator. Every operator should know the following requirements before operating the Sport Boat.**

- Before operating the boat, read the Owner's/Operator's Manual, the Operation Instruction Card, and all warning and caution labels on the boat. Also, watch the Basic Orientation Video provided with your Sport Boat. These materials should give you an understanding of the boat and its operation.
- Never allow anyone to operate this boat until they too have read the Owner's/Operator's Manual, the Operation Instruction Card, and all warning and caution labels, and if possible watched the Basic Orientation Video. Showing them the video may help reinforce the information contained in these materials.

## LIMITATIONS ON WHO MAY OPERATE THE SPORT BOAT

- Yamaha recommends a minimum operator age of 16 years old.
- Adults must supervise use by minors.
- Know the operator age and training requirements for your state. A boating safety course is recommended and may be required in your state. You can find local rules by contacting the United States Coast Guard (USCG), the National Association of State Boating Law Administrators, or your local Power Squadron.
- This Sport Boat is designed to carry the operator, up to 9 passengers, and cargo. Never exceed the maximum load limit or allow more than 10 persons (or 9 persons if a water skier is being pulled) to ride in the boat at one time. Weight distribution affects performance. Keep weight in the boat low and evenly distributed from side-to-side and front-to-back. Remove any unnecessary cargo and store it on shore.

**Maximum Load: 1800 lb (816 kg)**
**Load is the total weight of cargo, operator and passengers.**

## REQUIRED EQUIPMENT

The U.S. Coast Guard (USCG) has regulations which describe minimum standards of safety. You must comply with these regulations, which apply to boats like your Sport Boat which are less than 26 feet long.

- Personal Flotation Devices (PFDs):
  Type I, II, or III as required for all people on board (see "Operational Requirements" for more information), plus at least one Type IV (throwable type).
- Fire Extinguisher:
  At least one B-1 type hand-held portable fire extinguisher.
- Visual Distress Signals:
  It is recommended that a USCG-approved pyrotechnic device be stored on your boat. A mirror can also be used as an emergency signal. Contact your Yamaha dealer or the Coast Guard for more information.
- Sound Signalling Device:
  Your Sport Boat is equipped with a horn that can be used to signal other boats. See "Rules of the Road" for more information.
- Navigation Lights:
  Your Sport Boat is equipped with navigation lights for use between sunset and sunrise, and during periods of reduced visibility, such as fog. Be sure these lights are working and are turned on when necessary (see page 2-12 and 3-9 for more information).

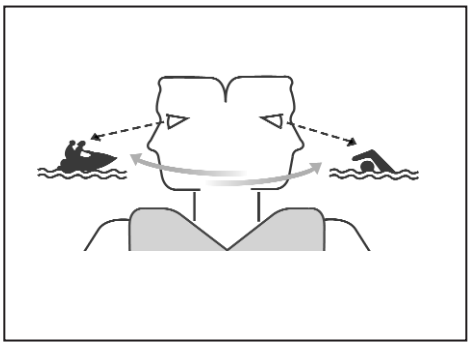
## ADDITIONAL EQUIPMENT RECOMMENDATIONS

The following equipment can help make your boating experience safer and more enjoyable:

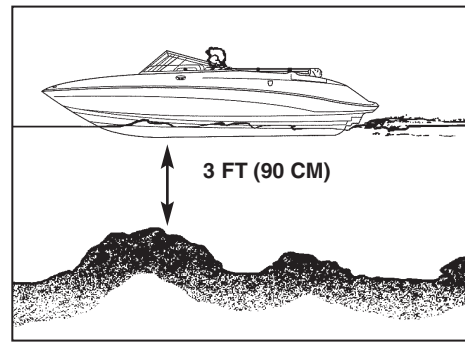
- Mooring fenders and lines
- Anchor with suitable line (a "Danforth" type anchor and line that is at least 6-times the depth of the water where you will drop anchor are recommended)
- Manual-type bilge pump
- First Aid kit
- Waterproof flashlight with extra batteries
- Tool kit with assorted screwdrivers, pliers, wrenches (including metric sizes), and electrical tape
- Oar or paddle (look for one with a boat hook on the other end)
- Spare parts, such as an extra set of spark plugs and fuses
- Navigation charts for the waters where you will be boating
- Tow rope

## CRUISING LIMITATIONS

- Scan constantly for people, objects, and other watercraft. Be alert for conditions that limit your visibility or block your vision of others.



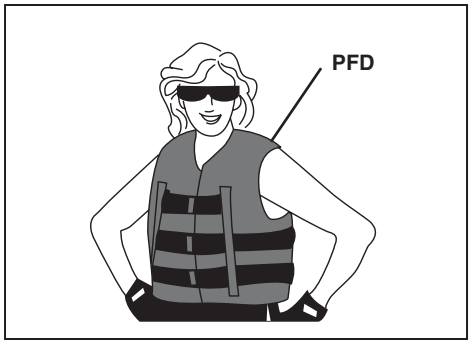
- Operate defensively at safe speeds and keep a safe distance from people, objects, and other watercraft.
- Do not follow directly behind other boats.
- Do not go near others to spray or splash them with water.
- Avoid sharp turns or other maneuvers that make it hard for others to avoid you or understand where you are going.
- Avoid areas with submerged objects or shallow water.
- Operate within your limits and avoid aggressive maneuvers to reduce the risk of loss of control, ejection, and collision.
- This is a high-performance boat – not a toy. Sharp turns or jumping waves or wakes can increase the risk of back/spinal injury (paralysis), facial injuries, and broken legs, ankles, and other bones. Do not jump waves or wakes.
- Do not operate the boat in rough water, bad weather, or when visibility is poor; this may lead to an accident causing injury or death. Be alert to the possibility of bad weather. Take note of weather forecasts and the prevailing weather conditions before setting out in your boat.
- Never operate in water that is less than 3 ft (90 cm) deep, otherwise you increase your chance of hitting a submerged object, which could result in injury.




- Leave a “float plan” with a responsible person on shore. Tell where you plan to go and when you plan to arrive, and provide a description of your boat. Advise this person if your plans change and also when you arrive to prevent false alarms. A sample float plan is included on page 6-6.

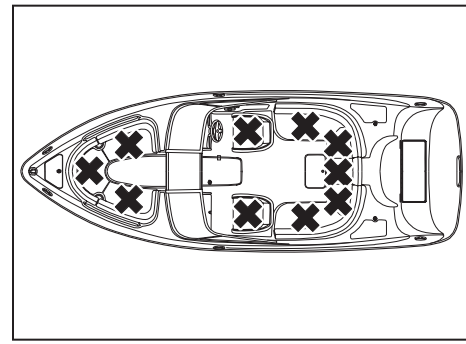
## OPERATIONAL REQUIREMENTS

- All riders must wear a Coast Guard approved personal flotation device (PFD).




- Eye protection is recommended to keep wind, water, and glare from the sun out of your eyes while you operate your Sport Boat. Restraining straps for eyewear are made which are designed to float should your eyewear fall into the water.
- Footwear and gloves are recommended.
- NEVER operate the boat after consuming alcohol or taking drugs.

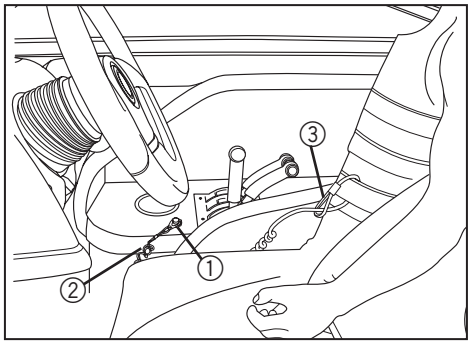
- For reasons of safety and proper care of the Sport Boat, always perform the pre-operation checks listed on page 3-4 before operating.
- Passengers must always sit in a designated seating area, place feet on the deck, and hold on to the hand grips when the boat is in motion.



- Always consult your doctor on whether it is safe for you to ride in this boat if you are pregnant or in poor health.
- Do not attempt to modify this Sport Boat! Modifications to your boat may reduce safety and reliability, and render the boat unsafe or illegal to use.

- Attach the engine shut-off cord (lanyard) to PFD and keep it free from steering wheel or other controls so that the engine stops if the operator accidentally leaves the helm. Failure to attach the engine shut-off cord could result in a runaway boat if the operator is ejected.

  After operation, remove the engine shut-off cord and the keys to avoid accidental starting or unauthorized use by children or others.




① Engine Shut-Off Switch
② Engine Shut-Off Cord with Clip
③ Cord connected to PFD

- Scan constantly for swimmers and stay away from swimming areas. Swimmers are hard to see and you could accidentally hit someone in the water.
- Avoid being hit by another boat! You should always take responsibility to watch for other traffic; other boaters may not be watching for you. If they do not see you, or you maneuver more quickly than they expect, you risk a collision.
- Maintain a safe distance from other boats or watercraft, and also watch for boats' ski ropes or fishing lines. Obey the "Rules of the Road" (see page 1-15), and be sure to check behind you before making a turn.

## HAZARD INFORMATION

- Never start the engine or let it run for any length of time in an enclosed area. Exhaust fumes contain carbon monoxide, a colorless, odorless gas that may cause death within a short time. Always operate the boat in an open area.

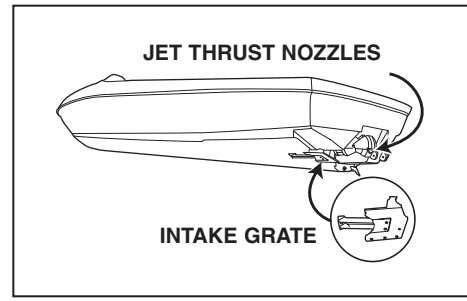
  It is also important to have the engines off when anyone is using the extended swim step on models equipped with one because of the carbon monoxide in the exhaust gases coming from underneath the step.

## SPORT BOAT CHARACTERISTICS

- Jet thrust turns the Sport Boat. Pulling the throttle levers completely back to idle produces only minimum thrust. If you are traveling at speeds above trolling, you will have rapidly decreasing ability to steer without throttle. You may still have some turning ability immediately after pulling the throttle levers back to idle, but once the engine slows down, the Sport Boat will no longer respond to steering wheel input until you apply throttle again or you reach a trolling speed. Practice turning in

an open area without obstructions until you have a good feel for the maneuver.

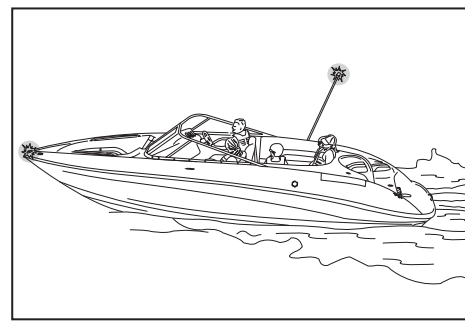
- Yamaha Sport Boats are water-jet propelled. The pumps are directly connected to the engines. This means that the jet thrust will produce some movement whenever the engines are running. The Sport Boat has a “neutral” position, but since the Sport Boat is always producing thrust while the engines are running, some forward or reverse movement may occur.
- Do not use the reverse function to slow down or stop the boat as it could cause you to lose control, be ejected, or impact the steering wheel or other parts of the boat. This could increase the risk of serious injury. It could also damage the shift mechanism.
- Reverse can be used to slow down or stop during slow speed maneuvering, such as when docking. Once the engine is idling, shift to reverse and gradually increase engine speed. Make sure that there are no obstacles or people behind you before shifting into reverse.
- Keep away from the intake grates while the engine is on. Items such as long hair, loose clothing, or PFD straps can become entangled in moving parts resulting in severe injury or drowning.




- Stop the engines and remove the clip from the engine shut-off switch before removing any debris or weeds, which may have collected around the jet intakes.
- Never insert any object into the jet thrust nozzle while the engine is running. Severe injury or death could result from coming in contact with the rotating parts of the jet pump.

## NIGHT OPERATION

- When using your Sport Boat before dawn or after dusk, you must have both bow and stern lights operating. When at anchor in the dark, the stern light must be lit. See page 2-12 for instructions.



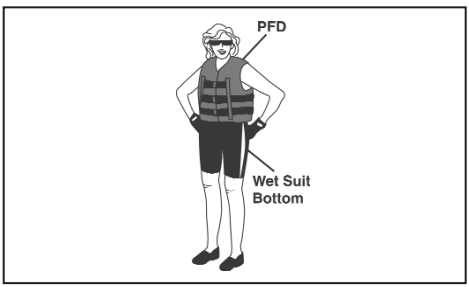
## WATER-SKIING

You can use the Sport Boat to tow a water skier, using the tow cleat provided.

It is the boat operator's responsibility to be alert to the safety of the water-skier and others. Know and follow all state and local water-skiing regulations in effect for the waters in which you will be operating.

The following are some important considerations for minimizing risks while water-skiing.

- The skier should wear an approved PFD, preferably a brightly colored one so boat operators can see the skier.




- The skier should wear protective clothing. Severe internal injuries can occur if water is forced into body cavities as a result of falling into the water or while reboarding. Normal swimwear does not adequately protect against forceful water entry into rectum or vagina. The skier should wear a wetsuit bottom or clothing that provides equivalent protection. Such clothing includes thick, tightly woven, sturdy and snug fitting apparel such as denim, but does not include spandex or similar fabrics like those used in bicycle shorts.
- A second person should be on board as a spotter to watch the skier; in most states it is required by law. Let the skier direct the operator's control of speed and direction with hand signals. The port-side seat swivels for a backward-facing observer. Be sure the seat is locked in place (pg. 2-13) before getting underway.
- When preparing to pull a skier, operate the boat at the slowest possible speed until the boat is well away from the skier and slack in the towrope is taken up. Make sure that the rope is not looped around anything.

  After checking that the skier is ready and that there is no traffic or other obstacles, apply enough throttle to raise the skier.
- Make smooth, wide turns. The Sport Boat is capable of very sharp turns, which could exceed the abilities of the skier. Keep the skier at least 50m (150 ft), about twice the distance of a standard towrope, away from any potential hazard.
- Be alert to the hazard of the towrope handle snapping back at the boat when the skier falls or is unable to get up on the skis.

# RULES OF THE ROAD

Your Yamaha Sport Boat is legally considered a powerboat. Operation of the Sport Boat must be in accordance with the rules and regulations governing the waterway on which it is used.

Just as there are rules that apply when you are driving on streets and highways, there are waterway rules that apply when you are operating your boat. These rules are used internationally, and are also enforced by the United States Coast Guard and local agencies. You should be aware of these rules, and follow them whenever you encounter another vessel on the water.

Several sets of rules prevail according to geographic location, but are all basically the same as the International Rules of the Road. The rules presented here in this Owner's/Operator's Manual are condensed, and have been provided for your convenience only. Consult your local U.S. Coast Guard Auxiliary or Department of Motor Vehicles for a complete set of rules governing the waters in which you will be operating your boat.

## STEERING AND SAILING RULES

Whenever two vessels on the water meet one another, one vessel has the right-of-way; it is called the "stand-on" vessel. The vessel that does not have the right-of-way is called the "give-way" or "burdened" vessel. These rules determine which vessel has the right-of-way, and what each vessel should do.

**Stand-On Vessel**
The vessel with the right-of-way has the duty to continue its course and speed, except to avoid an immediate collision. When you maintain your direction and speed, the other vessel will be able to determine how best to avoid you.

**Give-Way Vessel**
The vessel which does not have the right-of-way has the duty to take positive and timely action to stay out of the way of the stand-on vessel. Normally, you should not cross in front of the vessel with the right-of-way. You should slow down or change directions briefly and pass behind the other vessel. You should always move in such a way that the operator of the other vessel can see what you are doing.

The General Prudential Rule regarding the right-of-way is that if a collision appears unavoidable, neither boat has the right-of-way. Both boats must avoid the collision.

In other words, follow the standard rules except when a collision will occur unless both vessels try to avoid each other. If that is the case, both vessels become give-way vessels.

## RULES WHEN ENCOUNTERING VESSELS

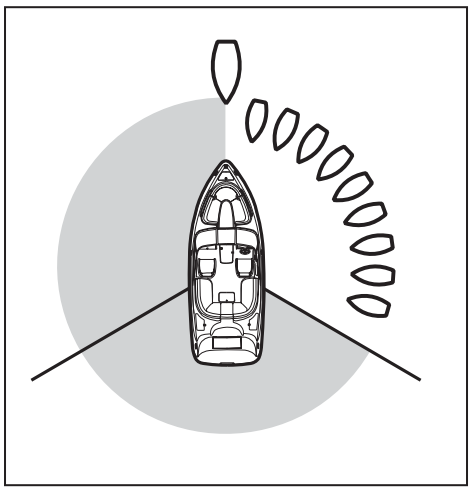
There are three main situations that you may encounter with other vessels which could lead to a collision unless the Steering Rules are followed:

**Meeting:** you are approaching another vessel head-on

**Crossing:** you are traveling across another vessel's path

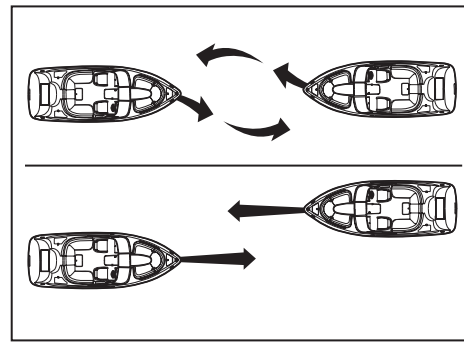
**Overtaking:** you are passing or being passed by another vessel

In the following illustration, your boat is in the center. You should give the right-of-way to any vessels shown in the white area (you are the give-way vessel). Any vessels in the shaded area must yield to you (they are the give-way vessels). Both you and the meeting vessel must alter course to avoid each other.



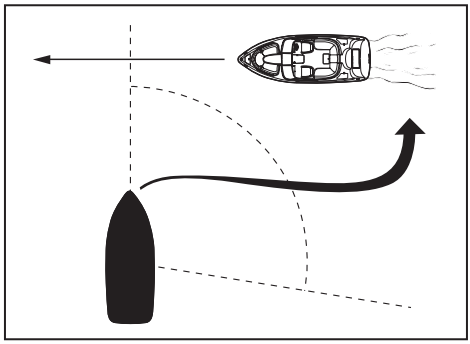
**Meeting**

If you are meeting another power vessel head on, and are close enough to run the risk of collision, neither of you has the right-of-way! Both of you should alter course to avoid an accident. You should keep the other vessel on your port (left) side. This rule does not apply if both of you will clear one another if you continue on your set course and speed.

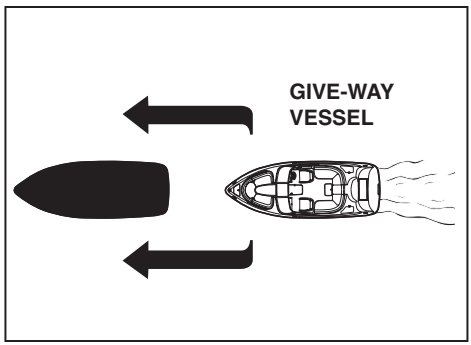


**Crossing**

When two power-driven vessels are crossing each other's path close enough to run the risk of collision, the vessel which has the other on the starboard (right) side must keep out of the way of the other. If the other vessel is on your starboard (right) side, you must keep out of its way; you are the give-way vessel. If the other vessel is on your port (left) side, remember that you should maintain course and direction, provided the other vessel gives you the right-of-way as it should.



**Overtaking**
If you are passing another vessel, you are the give-way vessel. This means that the other vessel is expected to maintain its course and speed. You must stay out of its way until you are clear of it. Likewise, if another vessel is passing you, you should maintain your speed and direction so that the other vessel can steer itself around you.




## OTHER SPECIAL SITUATIONS

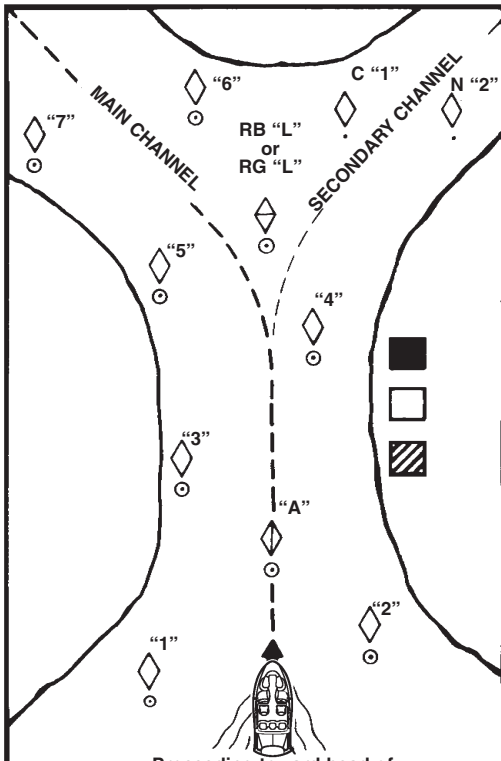
There are three other rules you should be aware of when operating your boat around other vessels.

**Narrow Channels and Bends**
When navigating in narrow channels, you should keep to the right when it is safe and practical to do so. If the operator of a power-driven vessel is preparing to go around a bend that may obstruct the view of other water vessels, the operator should sound a prolonged blast of four to six seconds on the horn. If another vessel is around the bend, it too should sound the horn. Even if no reply is heard, however, the vessel should still proceed around the bend with caution.

**Fishing Vessel Right-of-Way**
All vessels fishing with nets, lines or trawls are considered to be “fishing vessels” under the International Rules. Vessels with trolling lines are not considered fishing vessels. Fishing vessels have the right-of-way regardless of position. Fishing vessels cannot, however, impede the passage of other vessels in narrow channels.

**Sailing Vessel Right-of-Way**
Sailing vessels should normally be given the right-of-way. The exceptions to this are:

1. When the sailing vessel is overtaking the power-driven vessel, the power-driven vessel has the right-of-way.
2. Sailing vessels should keep clear of any fishing vessel.
3. In a narrow channel, a sailing vessel should not hamper the safe passage of a power-driven vessel that can navigate only in such a channel.

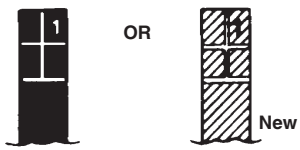



Proceeding toward head of navigation from seaward

**SECONDARY CHANNEL BUOYS**
**STARTS NEW NUMBERING SYSTEM**

C "1"

**CAN BUOY**
**Odd number. Leave to port.**



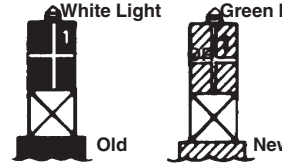

N "2"

**NUN BUOY**
**Even number. Leave to starboard.**

No change

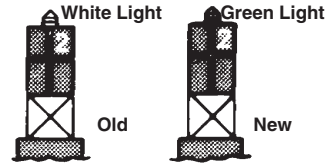
"1" "3" "5" "7"

**LIGHTED BUOY (Port Hand)**
**Odd number, increasing toward head of navigation. Leave to port (left) proceeding**



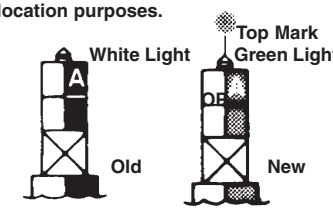

"2" "4" "6"

**LIGHTED BUOY (Starboard Hand)**
**Even number, increasing toward head of navigation. Leave to starboard (right) proceeding up-stream**



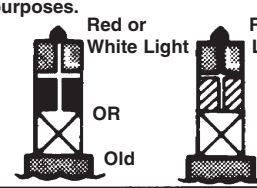

"A"

**LIGHTED SAFE WATER BUOY**
**No number. Marks midchannel, pass on either side. Letter has no lateral significance, used for identification and location purposes.**




RB "L" RB "L"

**LIGHTED PREFERRED CHANNEL TO PORT BUOY**
**No number. Topmost band red - preferred channel is to left of buoy. Letter has no lateral significance, used for identification and location purposes.**



**Reading Buoys and Other Markers**
The waters of the United States are marked for safe navigation by the lateral system of buoyage. Simply put, buoys and markers have an arrangement of shapes, colors, numbers and lights to show which side of the buoy a boater should pass on when navigating in a particular direction. The markings on these buoys are oriented from the perspective of being entered from seaward (the boater is going towards the harbor). Red buoys are passed on your starboard (right) side when proceeding from open water into port, and black buoys are to your port (left) side. An easy way to remember the meaning of the colors is the phrase "red right returning." When navigating out of the harbor, your position with respect to the buoys should be reversed; red buoys should be to port and black buoys to starboard.

Many bodies of water used by boaters are entirely within the boundaries of a particular state. The Uniform State Waterway Marking System has been devised for these waters.

This system uses buoys and signs with distinctive shapes and colors to show regulatory or advisory information. These markers are white with black letters and orange borders. They signify speed zones, restricted areas, danger areas, and general information.

Remember, markings may vary by geographic location. Always consult local boating authorities before riding your boat in unfamiliar waters.

# TO GET MORE BOATING SAFETY INFORMATION

Be informed about boating safety. Additional publications and information can be obtained from many organizations, including the following.

**United States Coast Guard**
Consumer Affairs Staff (G-BC)
Office of Boating, Public, and Consumer Affairs
US Coast Guard Headquarters
Washington, D.C. 20593-0001

**Boating Safety Hotline:**
1-800-368-5647

**Other Sources:**
You can find local rules by contacting the National Association of State Boating Law Administrators, or your local Power Squadron.

## BOAT EDUCATION AND TRAINING

The Online Boating Safety Course, available through the watercraft section of the yamaha-motor.com website, is a free, 50-question learning course available to the public. Upon successful completion of 80 percent or better, the user can request a certificate of completion by mail or can download one immediately. The Online Boating Safety Course, provided by the Boat/US Foundation, is approved by the National Association of State Boating Law Administrators (NASBLA) and recognized by the United States Coast Guard. This course meets the education requirement for those states that recognize non-proctored, NASBLA-approved courses.

## ACCIDENT REPORTING

Boat operators are required by law to file a Boating Accident Report with their state boating law enforcement agency if their boat is involved in any of the following accidents:

1. There is loss of life or probable loss of life.
2. There is personal injury which requires medical attention beyond first aid.
3. There is damage to boats or other property which exceeds $500.00.
4. There is complete loss of a boat.

Contact local law enforcement personnel if a report is necessary.

## ENJOY YOUR SPORT BOAT RESPONSIBLY

You share the areas you enjoy when operating your boat with others and with nature. So your enjoyment includes a responsibility to treat these other people, and the lands, waters, and wildlife with respect and courtesy.

Whenever and wherever you are boating, think of yourself as the guest of those around you. Remember, for example, that the sound of your boat may be music to you, but it could be just noise to others. And the exciting splash of your wake can make waves others won't enjoy. Avoid riding close to shoreline homes and waterfowl nesting areas or other wildlife areas, and keep a respectful distance from fishermen, other boats, swimmers, and populated beaches. When travel in areas like these is unavoidable, operate slowly and obey all laws.

Remember that pollution can be harmful to the environment. Do not refuel or add oil where a spill could cause damage to nature. And keep your surroundings pleasant for the people and wildlife that share the waterways: don't litter!

When you go boating responsibly, with respect and courtesy for others, you help ensure that our waterways stay open for the enjoyment of a variety of recreational opportunities.

# Chapter 2
# FEATURES & FUNCTIONS

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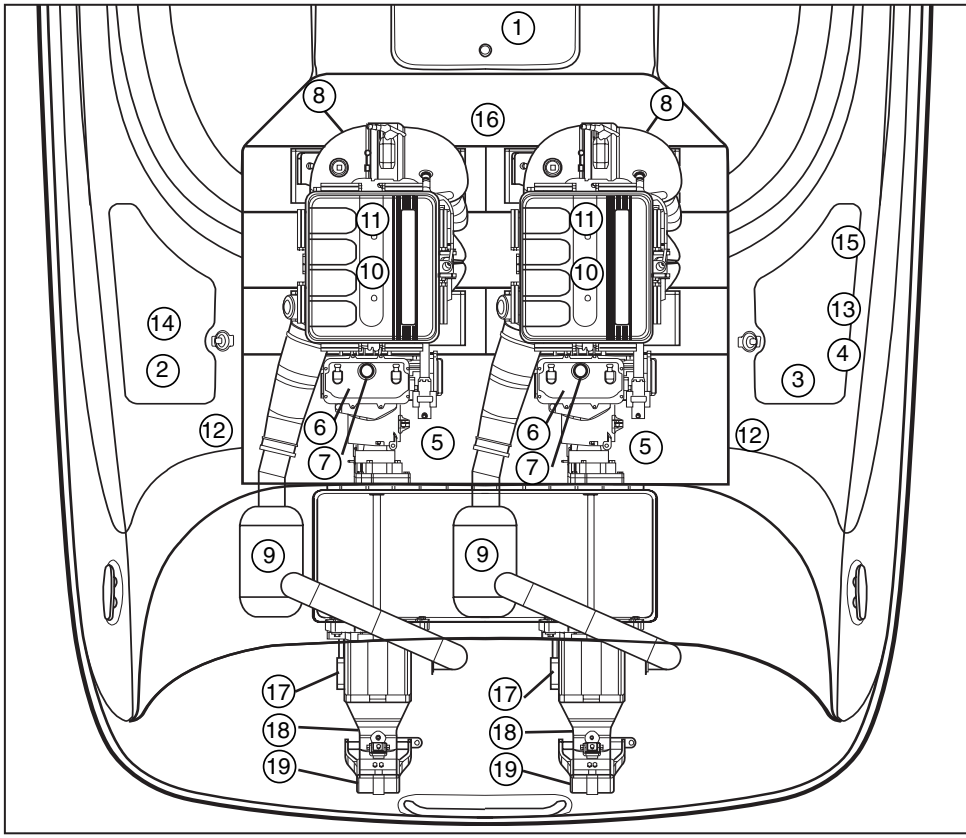
# LOCATION OF MAIN COMPONENTS

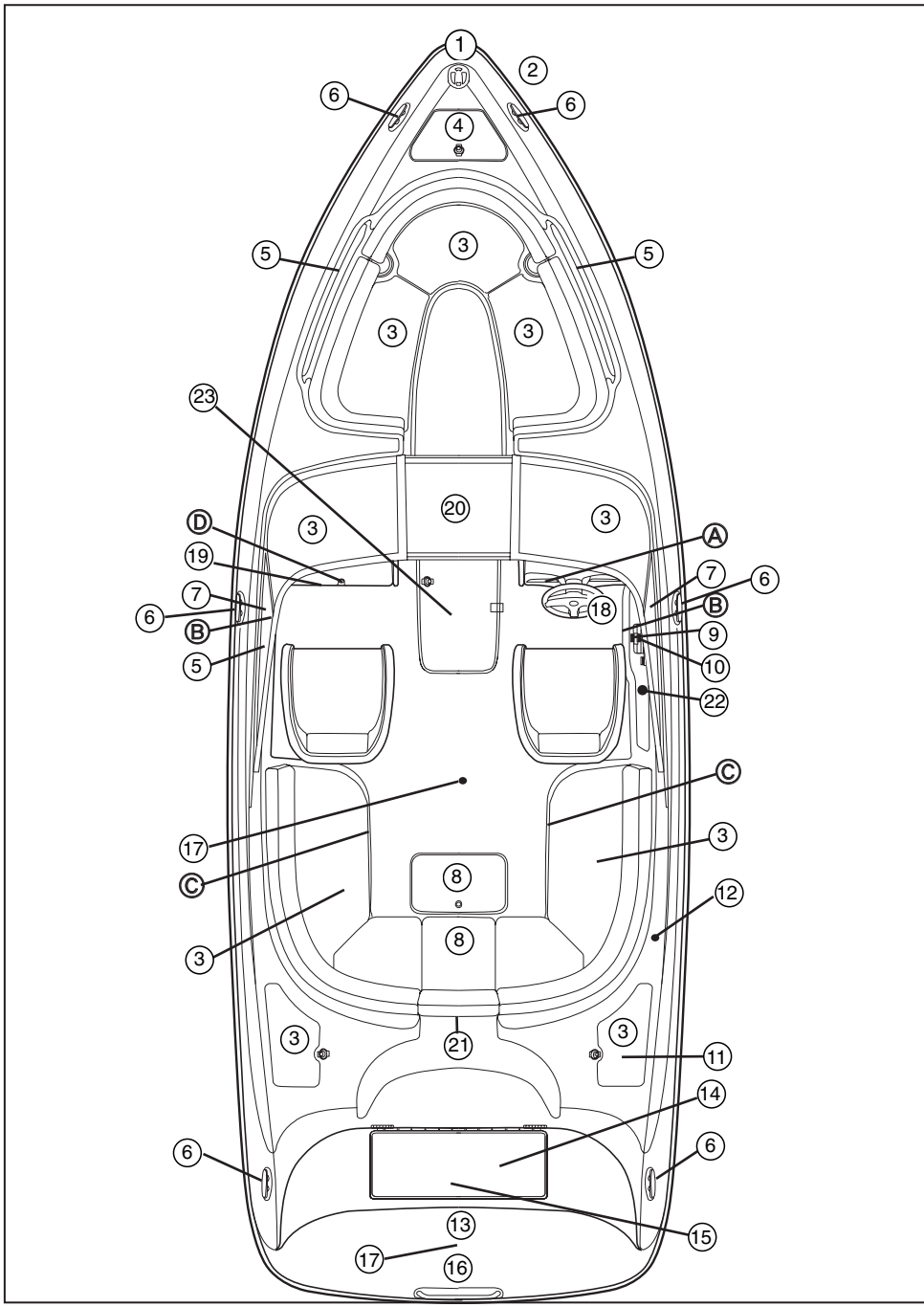



**Main Features:**

1. Fuel Tank
2. Battery
3. Blower Motor

**Port/Starboard Features:**

4. Flush Attachments
5. Electrical Boxes
6. Oil Tanks
7. Oil Tank Cap/ Dipstick
8. Mufflers
9. Muffler Boxes
10. Spark Plugs/ Spark Plug Caps
11. Air Filter Cases
12. Hood Supports
13. Engine Compartment Vent Outlets
14. Engine Compartment Vent Inlets
15. Fuel Tank Compartment Air Ventilation
16. Fuel Tank Compartment Drain Plug
17. Jet Pumps
18. Jet Thrust Nozzles
19. Reverse Gate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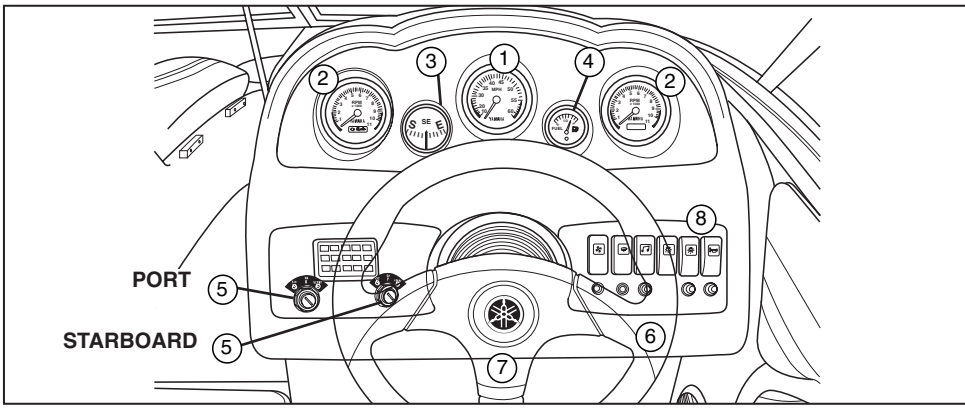
**LOCATION OF MAIN COMPONENTS:**

① Bow Light
② Bow Eye
③ Storage Compartments
④ Bow Anchor Locker
⑤ Grab Handles
⑥ Cleats
⑦ Courtesy Lights
⑧ Fuel Pump Access Hatch
⑨ Throttles
⑩ Shifter
⑪ Stern Light Storage
⑫ Stern Light Socket
⑬ Ski Tow Hook
⑭ Jet Pump Clean-out Access Panel
⑮ Pump Clean-out Interlock Switches
⑯ Rear Boarding Step
⑰ Accessory Pedestal Table Mounts
⑱ Tilt Adjustable Steering Wheel
⑲ Glove Box
⑳ Center Walk-Through Folding Windshield
㉑ Folding Walk-Through Transom Seat Back
㉒ Fire Extinguisher Holder
㉓ Ski Locker

**LOCATION OF STEREO COMPONENTS:**

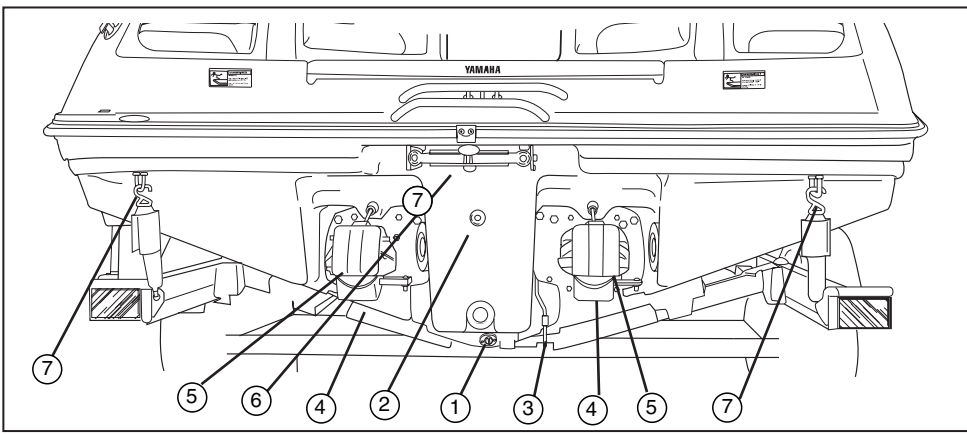
Ⓐ Remote Control Keypad
Ⓑ Speakers
Ⓒ Speakers
Ⓓ CD Player/Receiver

## LOCATION OF MAIN COMPONENTS




### Control Features:

1. Speedometer
2. Tachometer
3. Compass
4. Fuel Gauge
5. Ignition Switch Keys
6. Steering Wheel
7. Tilt Adjustment Lever
8. Switches and Breakers

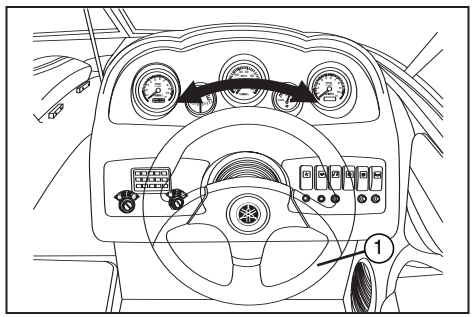



### Control Features:

1. Deck Drain
2. Clean-out Compartment Drain
3. Speedometer Pick-up
4. Steering Nozzle
5. Pump Gates
6. Ladder
7. Trailer Strap Eyes

# OPERATION OF CONTROLS AND OTHER FUNCTIONS

## STEERING

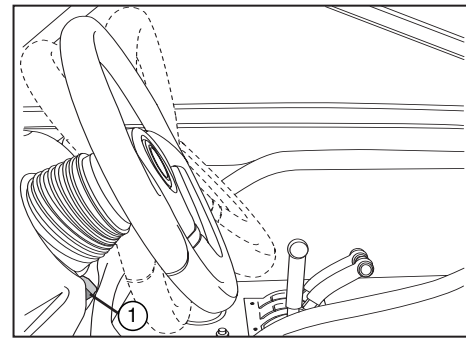



① Steering wheel

Your Sport Boat can be steered by turning the steering wheel the same direction you wish to travel, to the right or left. When the wheel is turned, the angle of the jet (output) nozzles at the rear of the craft is changed, and the change in direction of the nozzles changes the direction of the boat accordingly. Since the strength of the jet thrust determines the speed and direction of a turn, the throttle must always be opened above idle when attempting a turn, except at trolling speed.

Because boats steer from the stern (rear), the stern of the boat swings out in the opposite direction of your turn. If you turn to the starboard (right), for example, the stern of the boat will swing to the left. Keep this in mind when navigating near a person in the water, such as a down skier, or an obstacle, such as a dock.

## TILT LEVER




The tilt lever ① is located under the steering wheel and is used to adjust the tilt of the steering wheel. There are three positions.

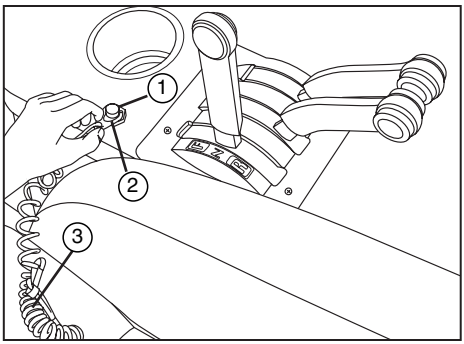
To adjust the tilt, pull the lever up, and then move the steering wheel up or down to the desired position. The lever will lock into place when the wheel is moved into one of the three available positions.

**⚠WARNING**

- **Never touch the tilt lever during operation, otherwise the steering wheel could suddenly change position, which may lead to an accident.**
- **Be sure the steering wheel is locked in position after adjustment. If the steering wheel is not locked in position, it may suddenly change position during operation, which may lead to an accident.**

## ENGINE SHUT-OFF SWITCH

The clip on the end of the engine shut-off cord must be attached to the engine shut-off switch for the engines to run. The cord must be attached to a secure place on the operator's personal flotation device (PFD). Should the operator fall overboard or leave the helm, the cord will pull out the clip, stopping ignition to both engines. This will prevent the boat from running away under power.




① Engine shut-off switch

② Clip

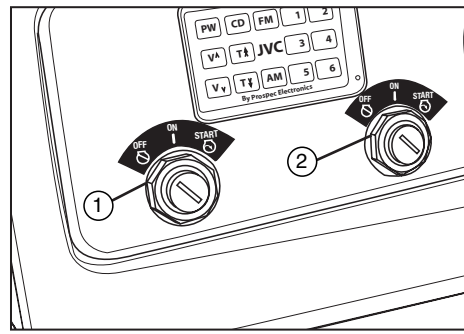
③ Engine shut-off cord (lanyard)

**⚠WARNING**

- **Always attach the engine shut-off cord to your personal flotation device (PFD) BEFORE starting the engines. Failure to attach the cord could result in a runaway boat if the operator is ejected.**
- **Do not attach the cord to clothing that could tear loose. Do not route the cord in such a way that it could become entangled, preventing it from functioning.**
- **Avoid accidentally pulling the cord during normal operation. Once the engines have stopped you have no steering control of the boat which could result in an accident. Also, without engine power, the boat could slow rapidly from planing speed. This could cause people and objects in the boat to be thrown forward, which could cause injury.**

## MAIN SWITCHES

There is a main switch for each engine. The main switches control the ignition and electrical circuits as follows:




① Port (left) engine

② Starboard (right) engine

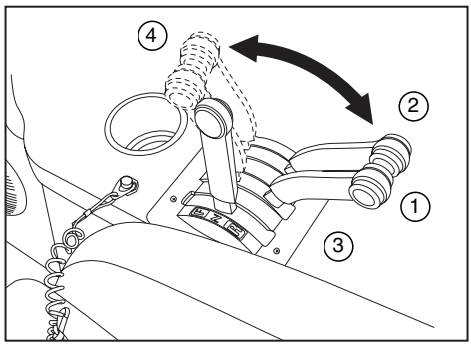
**OFF:**
Ignition circuits are switched off. The engine cannot be started but other switches will operate. (The key can be removed.)

**ON:**
Ignition circuits are switched on. (The key cannot be removed).

**START:**
The starter motor will turn to start the engine. (When the key is released, it returns automatically to "ON.")

**NOTE**:
- The engine will not start when the engine shut-off cord clip is removed from the engine stop switch. The starter motor will turn over without the cord attached.
- The ignition switch will not operate (the starter motor will not turn over) if the battery switch in the battery compartment is turned to the off position. See page 4-3 for more information.

## THROTTLE LEVERS




① Throttle lever, port (left) engine
② Throttle lever, starboard (right) engine
③ Idle
④ Full speed

**⚠WARNING**

**Before starting the engine, always check the operation of each throttle lever. It should move smoothly through its full range of operation. Otherwise, there could be loss of control and an accident.**

A separate throttle lever controls each engine. In normal operation the throttle levers are moved together. Moving the throttle levers forward increases engine speed. Move both throttles to the idle position before using the shift lever.

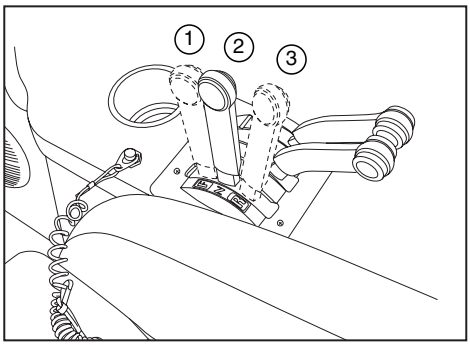
## SHIFT LEVER

**⚠WARNING**

**SEVERE INJURY OR DEATH MAY RESULT IF YOU IGNORE ANY OF THE FOLLOWING.**

- **Check throttle, steering, and shift lever for proper operation before starting the engines.**
- **Shift into neutral before starting engines.**
- **Put throttle levers in idle position before shifting.**
- **Make sure there are no people or objects behind the boat before starting or shifting into Reverse.**
- **When operating in Reverse, go slowly. Do not open the throttle more than half. Otherwise, the boat may become unstable, which could result in loss of control and an accident.**
- **Do not shift into Reverse while traveling at planing speeds. Loss of control, boat swamping, or damage to the boat could occur.**

**NOTE:** This Sport Boat is equipped with a mechanical interlock that prevents shift lever movement unless both throttle levers are put in the idle position first. It also has a start-in-gear protection neutral switch that prevents the engines from cranking if the shift lever is not in Neutral.

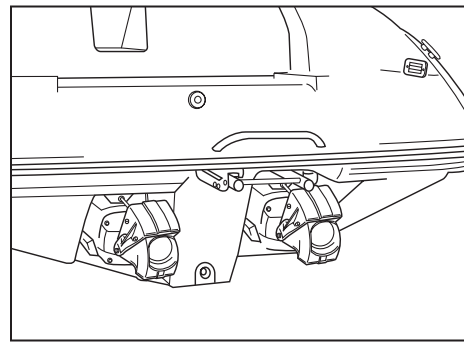



① Forward
② Neutral
③ Reverse

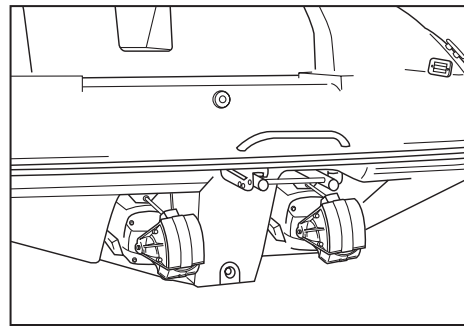
The shift lever controls the direction of travel.

The drive line on the Sport Boat is direct drive, so jet thrust is always being produced while the engines are running. The direction of the boat is controlled by jet pump gates which direct the flow of the jet thrust as follows:

**Forward**
The jet pump gates are lifted all the way up. All jet thrust is to the rear, which moves the boat forward.



**Neutral**
The jet pump gates are dropped down part way over the jet nozzles. Some jet thrust is to the rear and some jet thrust is redirected forward. This balance of thrust acts like “neutral” to keep the boat from moving.

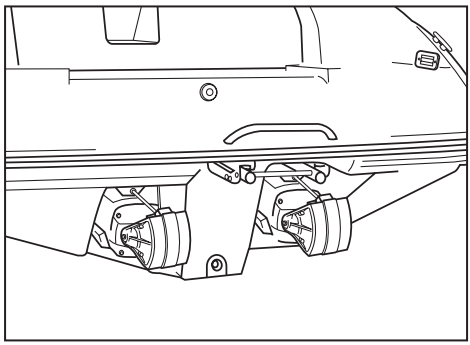


**⚠WARNING**

**Leave the throttles in the idle position when Neutral is selected. The boat will start moving as if it was in Forward or Reverse if engine speed is increased above idle in Neutral.**

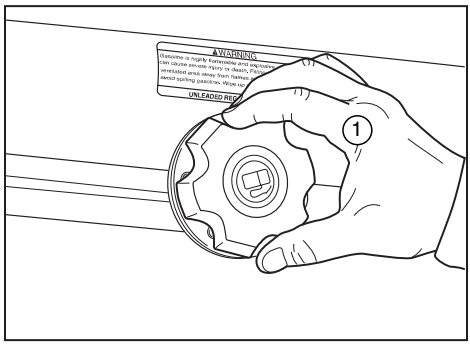
**Reverse**

The jet pump gates are dropped all the way down over the jet nozzles. Jet thrust is redirected toward the bow of the boat, which moves the boat backward.



## FUEL TANK FILLER CAP

To remove the fuel tank filler cap, turn it counterclockwise.



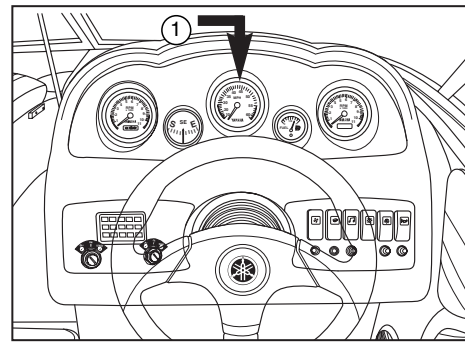

① Fuel tank filler cap

Be sure to tighten the cap securely before operating.

## GAUGES

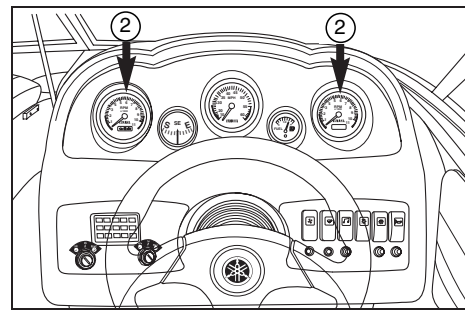
**1. Speedometer**

The speedometer ① shows the boat speed in miles per hour (mph).




**2. Tachometers**

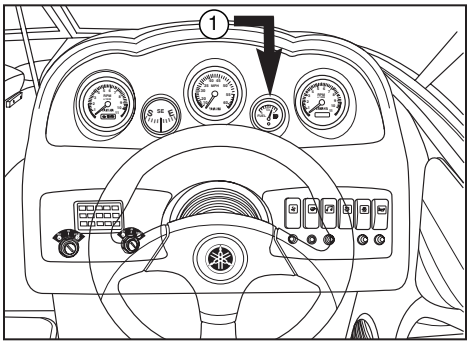
The Sport Boat has two tachometers ② which display engine rpm. The one on the left is for the port engine. The one on the right is for the starboard engine. For cruising, adjust the throttle levers so both engines are running at the same rpm.




**NOTE:** Because of the mechanical throttle linkage, the throttle levers may not be exactly even with one another when the engines are running at the same rpm.

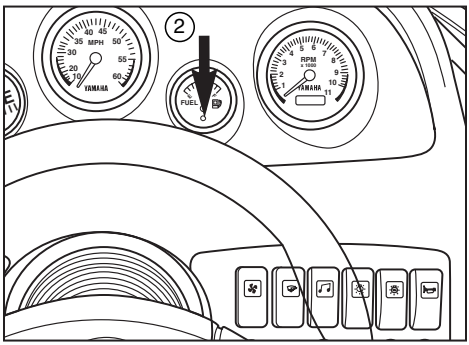
**3. Fuel Level Gauge**

The fuel level gauge ① shows the amount of fuel in the fuel tank. The ignition switch must be in the "ON" position to activate the gauge.




Always consider the distance you are traveling and the amount of fuel you have available. Be sure you have enough fuel to reach your next fuel stop. A good tip to remember is to use a third of your fuel to get out, a third to get back, and keep a third in reserve.

*Low Fuel Warning Indicator* – If the fuel tank is too low to continue normal operation much longer, this warning light will come on. Refill the fuel tank as soon as possible (see "Filling the Fuel Tank," page 3-2).




**4. Compass**

The compass shows your direction of travel.

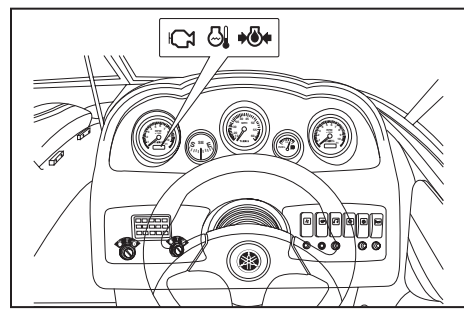
**5. Warning Indicators**

There are three warning indicators in each tachometer to alert you about certain conditions on your Sport Boat. These warnings correspond to the engine monitored by the tachometer.

*Check Engine* – If a sensor malfunction or a short circuit is detected, the warning indicator will come on. If this occurs, reduce engine speed and return to shore. Have a Yamaha dealer check the engine and circuits.

*Engine Overheat* – This model is equipped with an engine overheat warning system. See the following section for an explanation.

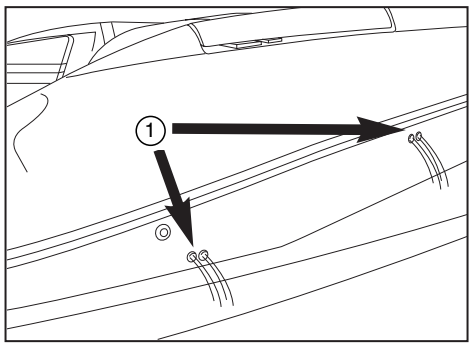
*Oil Pressure* – If oil pressure does not rise to specification, the oil pressure warning indicator comes on. At the same time, engine speed reduction control is activated, limiting maximum speed to 3000 rpm. If this occurs, reduce engine speed and return to shore. Have a Yamaha dealer check the engine oil pressure.



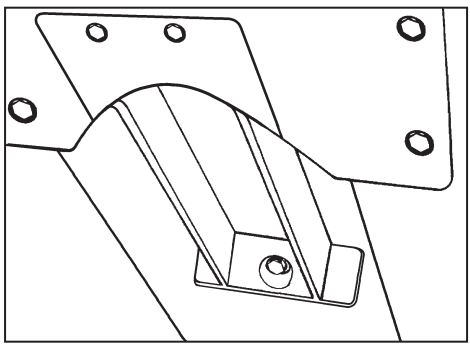
## OVERHEAT WARNING SYSTEM

The engine has an overheat warning device. If either engine starts to overheat, the engine speed of the affected engine will be limited to 3000 rpm.

Each engine is equipped with cooling-water pilot outlets ① on the starboard side of the hull. Check that water comes out of the outlet while the engine is running, particularly while applying throttle. If you do not see any water at the outlet, cooling water may not be circulating in the engine.




**NOTE:** If water cooling passages on the engines are dry, it will take about 20 seconds for water to reach the pilot outlets after starting.



If water is not circulating, something may be clogging the jet intake grate. Refer to the Jet Pump Clean-Out procedures on page 5-5 for further information.

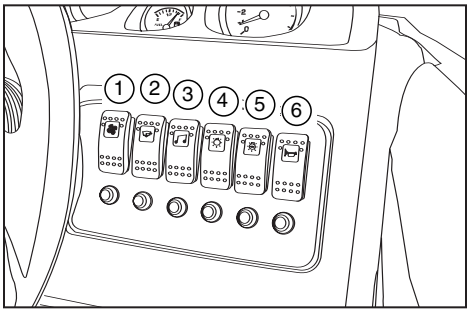
**CAUTION:**

**If the cause of overheating cannot be found and corrected, take special precautions to avoid major engine damage while you return to shore.**

**SINGLE ENGINE OVERHEATING — Shut off the overheating engine and use the properly running engine to return to shore. Operate at "no-wake" speed to prevent water from flooding the non-operating engine through the cooling water intake.**

**BOTH ENGINES OVERHEATING — If getting a tow from another vessel is not possible, operate both engines just slightly above idle while you return to shore. If you can be towed, refer to "Towing the Sport Boat" on page 5-3.**

## SWITCHES



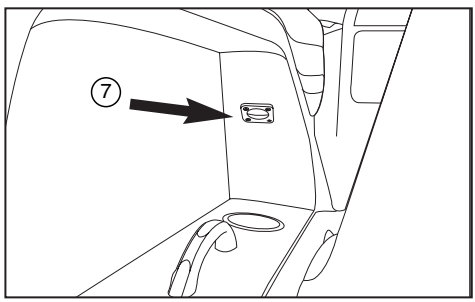

① Blower
② Bilge Pump
③ Stereo
④ Courtesy Lights
⑤ Lights
⑥ Horn

**Blower**
Press this switch to turn on the blower to ventilate the engine compartment. See page 3-9 for more information.

**Bilge Pump**
Press this switch to activate the bilge pump. See page 3-8.

**Stereo**
This is the master control for the stereo system. Press this switch to allow CD or radio operation.

**Courtesy Lights**
This switch turns on the lights ⑦ located in the recess on each side of the gunwale.

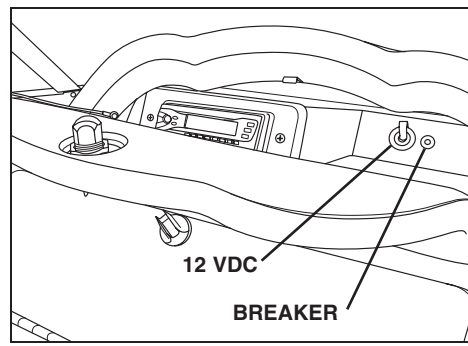



**Lights**
This toggle switch controls the required on-board lighting. Press the top of the switch to turn on both the bow light and stern light for night running. Press the bottom of the switch to operate the stern light alone when anchored at night. Put the switch in the middle position to turn off all lights (see page 3-9).

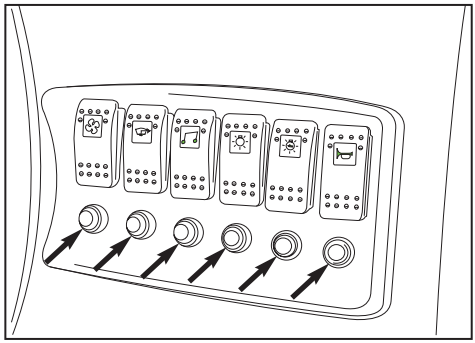
**Horn**
Pressing this switch activates the horn. The horn can be used to signal other boats as required by the “Rules of the Road” (see page 1-15).

**NOTE:** The helm switches will not work if the battery switch in the battery compartment is turned to the off position. See page 4-3 for more information.

**Accessory Outlet**
There is a 12VDC outlet with resettable circuit breaker located in the portside console storage compartment.




**Switch Circuit Breakers**
The electrical circuit for each switch is protected by a circuit breaker. If the button below a switch pops out, push it back in with your finger. If it pops out again, ask your Yamaha dealer to inspect the electrical system.



**NOTE:** There is also an accessory fuse at the battery (see page 4-15).

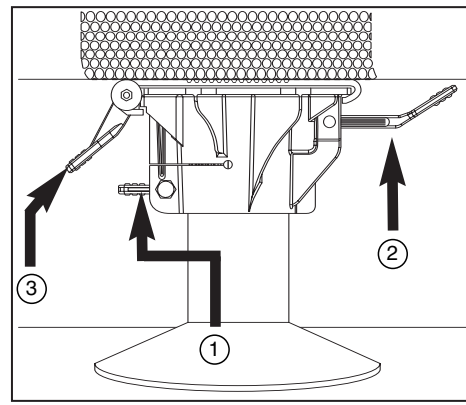
## SWIVEL SEAT OPERATION

The driver's and mid-ship passenger's seats are two-way adjustable.

To move the seat forward or back, pull up on the lever ① located under the front of the seat. Move the seat to the desired position, then release the lever.

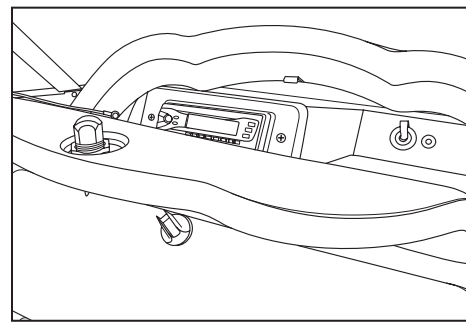
To rotate the seat, first move the seat to its fully forward position. Then, pull up on the lever ② located under the side of the seat. Release the lever once you begin to pivot. The seat will pivot freely up to 180°, and will automatically lock into the fully front-facing or rear-facing position. Use the rear-facing position of the passenger seat for an observer when someone is water-skiing behind the Sport Boat. There is also a friction lever ③ to adjust how easily the seat rotates.

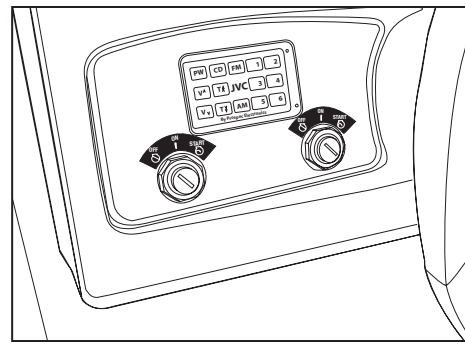
The driver must always be locked into the full front-facing position and the passenger must be locked into either the full front-facing or, if observing a water-skier, the full rear-facing position before getting underway.




## STEREO SYSTEM

A stereo CD player/receiver is standard. The system consists of the CD player/receiver, four speakers, and a remote control keypad at the helm. Refer to the stereo system owner's manual included with your boat.

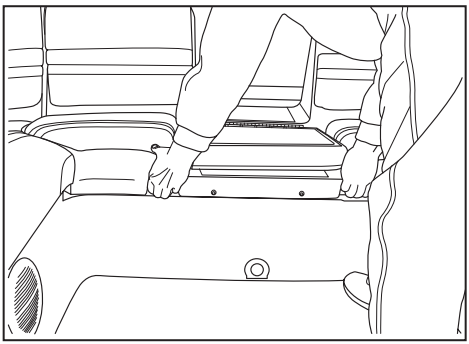


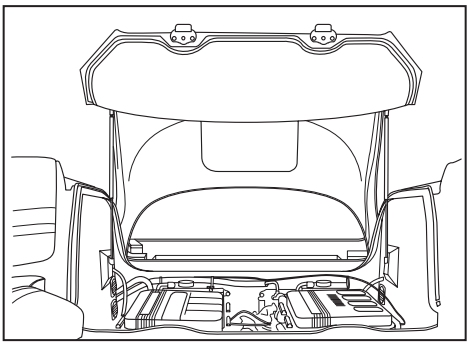


## ENGINE HOOD

There are two hood latches located under the front of the rear seat. To open the engine hood, lift both latch hooks upward and lift the hood. The hood is supported by gas-filled struts.

**Hood Latches and Struts**

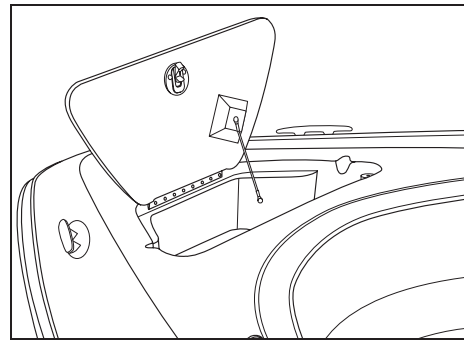




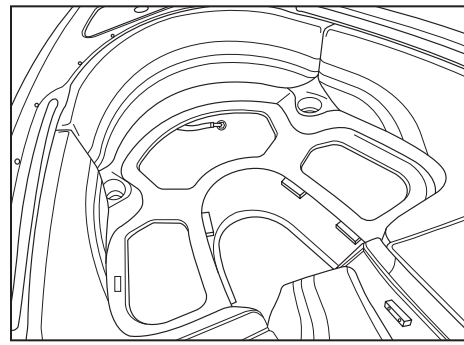
## STORAGE COMPARTMENTS

Your boat has 12 convenient on-board storage compartments.

**Bow Anchor Storage**

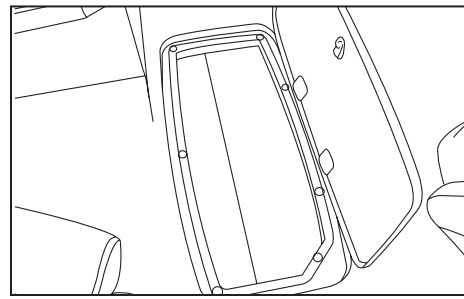


**Under Front Seats**

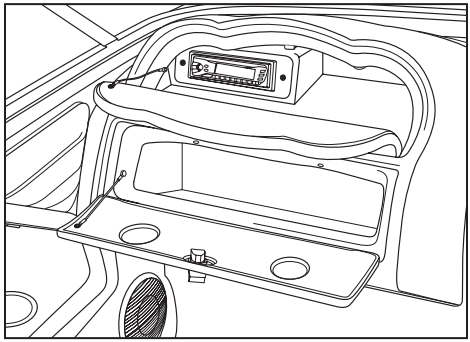


Pull up the seat cushions to access the storage compartments.

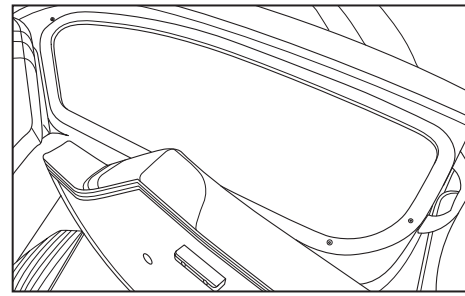
**Ski Locker**



**Glove Box**

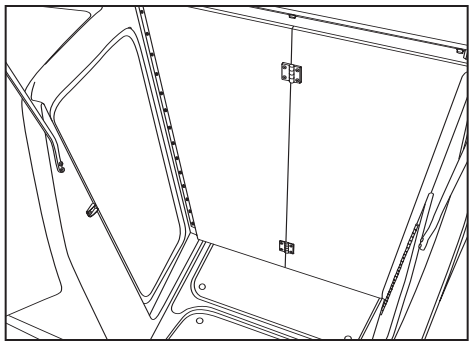


**Under Rear Side Seats**

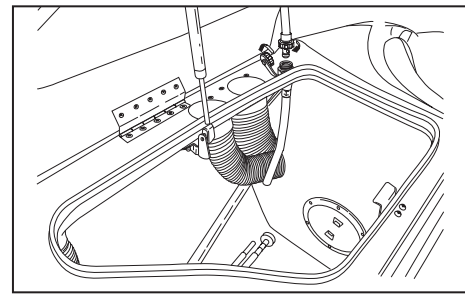


Pull up the seat cushions to access the storage compartments.

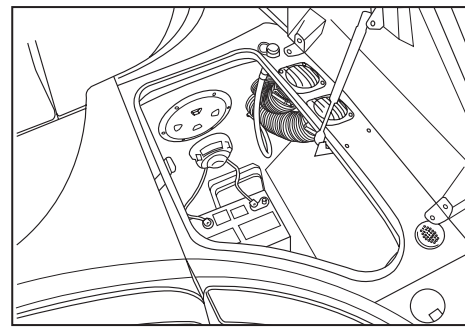
**Port-Side Console**



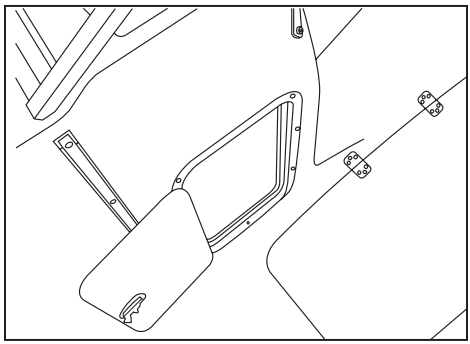
**Starboard Side Rear Compartment**



**Port Gunwale Battery Compartment**



**Driver's Side Console**



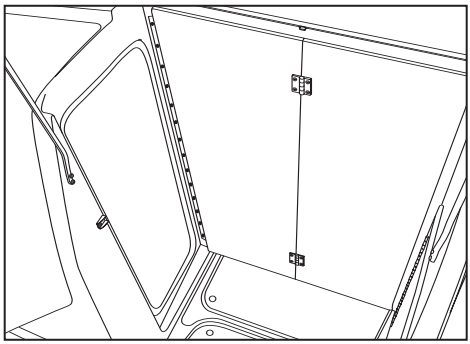
**⚠WARNING**

**Do not carry any flammable substances in the battery compartment or any heavy or metal items that can damage the battery or cause a short circuit. Sparks or fire could result.**

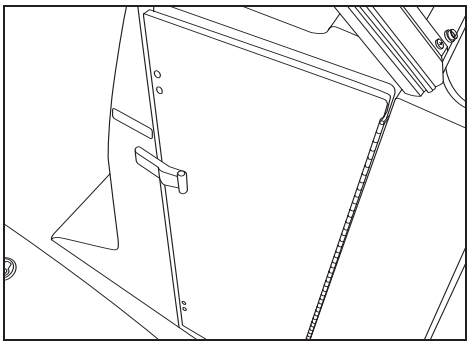
## FRONT WALK-THROUGH

If desired, the Walk-Through to the bow of the boat can be closed.

### Doorway

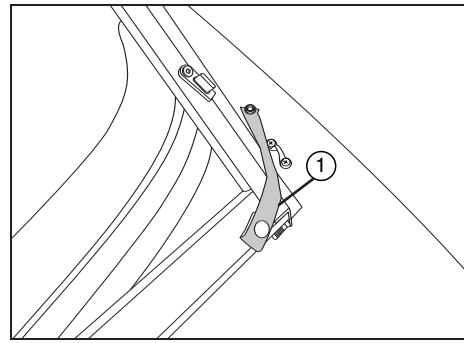


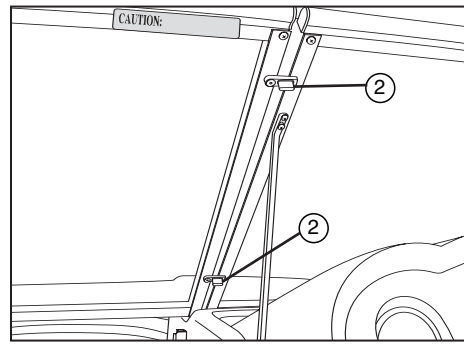
Unlatch the folding door from the port side console by pulling the rubber latch. Unfold the door and guide the edge of it into the channel on the driver's side helm console. To hold the door in place, hook the rubber latch to the metal tab on the front side of the door.



To open the doorway, pull the rubber latch to release the folding door. Fold the door into the storage opening, then secure it with the rubber latch.

### Windshield




Unsnap the retaining strap ① from the windshield and pivot it into place. Rotate the two latches ② to keep the windshield secured. When the windshield is open, be sure to secure it with the retaining strap to keep it from moving while underway or trailering.

## REAR WALK-THROUGH

For easy access from the cabin area to the stern patio area and swim platform, open the Rear Walk-Though. Lift out and stow the center rear seat cushion. Fold the back of the seat down to open the walk-through.

To close the Rear Walk-Through, lift the back of the seat to the upright position. Press the center seat cushion firmly into place.

## SWIM PLATFORM

The swim platform area provides a place to stand or sit while putting on skis or a wakeboard, and includes a ladder to make boarding from the water easier. To use the ladder, pull it out from underneath the swim platform until it can drop down. Before operating the boat, return the ladder to its storage position.

**⚠WARNING**

**Stay away from the swim platform area while the engines are running. Exhaust gases coming from underneath it contain carbon monoxide, a colorless, odorless gas which may cause brain damage or death when inhaled. Symptoms include nausea, dizziness, and drowsiness.**

# Chapter 3
# OPERATION

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# FUEL AND OIL

## GASOLINE

Use regular unleaded 87 octane (R+M ÷ 2) gasoline.

**⚠WARNING**

**GASOLINE AND ITS VAPORS ARE HIGHLY FLAMMABLE AND EXPLOSIVE!**

- **Do not smoke when refueling, and keep away from sparks, flames, or other sources of ignition.**
- **Stop engines and turn ignition keys to Off before refueling.**
- **Refuel in a well-ventilated area. If the Sport Boat is in the water, be sure it is securely moored to the fueling dock. All passengers must be out of the boat during refueling.**
- **Take care not to spill gasoline. If gasoline spills, wipe it up immediately with dry rags. Always properly dispose of gasoline-soaked rags.**
- **Avoid overfilling the fuel tank. Stop filling when the fuel level just reaches the bottom of the filler tube. Do not fill up the filler tube because fuel expands as it warms up and could overflow.**
- **Tighten the filler cap securely after refueling.**
- **If you should swallow some gasoline, inhale a lot of gasoline vapor, or get gasoline in your eyes, get immediate medical attention.**
- **If any gasoline spills onto your skin, immediately wash with soap and water. Change clothing if gasoline spills on it.**

**CAUTION:**

**Use only fresh gasoline that has been stored in clean containers.**

### Gasohol

There are two types of gasohol: gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if ethanol content does not exceed 10% and the fuel meets minimum octane ratings. Gasohol containing methanol is not recommended by Yamaha because it can cause fuel system damage or engine performance problems.

### Ring Free Fuel Additive

Gasoline is a precise blend of many different substances, each chosen to give certain characteristics. Gasoline blends have been changing in recent years in response to concerns about pollution and resulting emissions regulations. One of the most obvious changes has been the elimination of lead from fuels.

As gasoline has changed, the amount of additives such as aromatics and oxygenates has increased. These additives are important for the engines in passenger cars, but they can have detrimental effects in marine engines.

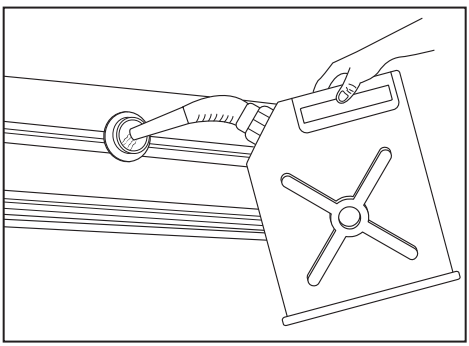
While many additives available may reduce deposits, Yamaha recommends the use of Ring Free Fuel Additive, available from your Yamaha dealer. Ring Free has repeatedly proven its ability to clean combustion deposits from inside the engine, notably in the critical piston-ring-land area, and fuel system components. Follow product labeling for use instructions.

**ENGINE OIL**

Recommended oil: YAMALUBE 4-W. If YAMALUBE 4-W is not available, another 10W-30 4-cycle engine oil with an API rating of SE, SF, SG, SH, or SJ.

# GASOLINE AND ENGINE OIL FILLING

## FILLING THE GASOLINE TANK



Open the fuel tank filler cap, and slowly add fuel to the fuel tank. Be careful not to spill fuel or overfill the tank.

Stop filling when the fuel just becomes visible in the bottom of the filler tube. Do not “top off” the tank, because gasoline could spill out. Be sure to tighten the cap securely.

**CAUTION:**

**Be careful when refueling. Avoid getting water or other contaminants in the fuel tank. Contaminated fuel can cause poor running or engine damage.**

Fuel tank capacity: 50 US gal (189 lit)

**ENGINE OIL LEVEL**

Check the oil level in both engines before each use. Check the oil on each engine when cold to be sure there is enough oil to run the engine.

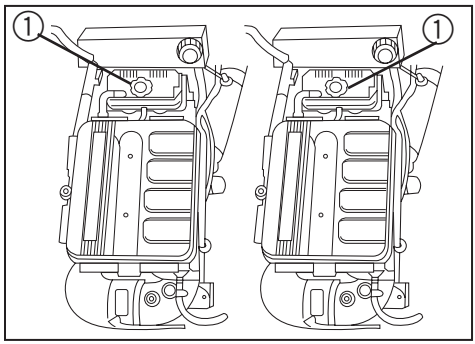
**CAUTION:**

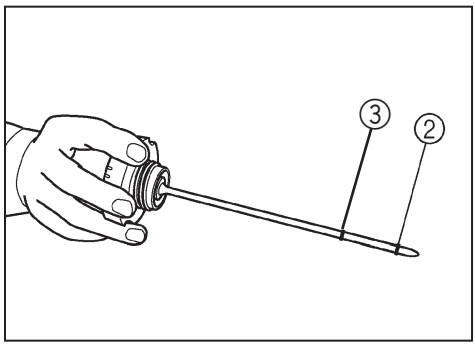
**Be sure the engine has enough oil but do not overfill. If there is too little oil, the engine can be damaged. If there is too much oil, the air filter can become saturated with oil, permanently damaging the filter and reducing engine performance. Follow the checking procedure carefully.**

**NOTE:**

- Each engine has an oil-tank system. It is normal for the oil level to vary depending upon whether the engine is cold or at operating temperature.
- Adding 1 US qt. (0.95 l) of oil will raise the oil level on the dipstick by approximately 2.2 in. (5.6 mm).

To check oil, be sure the boat is level, either in the water or on the trailer. Open the engine compartment by pulling up on the two latches located under the front of the rear seat.




**Cold Engine Check**

1) Remove the oil tank filler cap ①, wipe the dipstick with a clean rag, and then screw the cap on securely. Remove the cap again and check the oil level.
2) If the level is at least at the minimum level "L" mark ② on the dipstick, but less than the "F" mark ③, the engine can be operated.
3) If oil must be added, add just enough oil to raise the level to the "L" mark. Adding more oil could result in an overfilled engine once it warms up.
4) Repeat for the other engine.

**Warm Engine Check**

1) Be sure the engine is warmed to operating temperature.

**NOTE:** The engines are at the proper operating temperature after they have been run for 5 minutes or more at 7,000 rpm or above and then at a trolling speed for 2~3 minutes. If the boat is on the trailer, run the engine with the flush attachment at an idle speed for 6 to 8 minutes, or at least 13 minutes if air temperature is 59° F (15°C) or colder.

2) Remove the oil tank filler cap ①, wipe the dipstick with a clean rag, and then screw the cap on securely. Remove the cap again and check the oil level.
3) The oil level should be between the minimum and maximum level marks. If the level is below the "L" mark ②, then add only enough oil to raise the level above the "L" mark but never above the "F" mark ③.
4) Repeat for the other engine.

**CAUTION:**

**If the level is above the "F" mark, the engine is overfilled. Consult a Yamaha dealer to have oil extracted from the engine to avoid damage.**

# PRE-OPERATION CHECKS

## CHECK LIST

Before Operating this Sport Boat, perform the following checks:

**⚠WARNING**

**If any item in the Pre-Operation check is not working properly, have it inspected and repaired before operating the Sport Boat. Otherwise an accident could occur.**

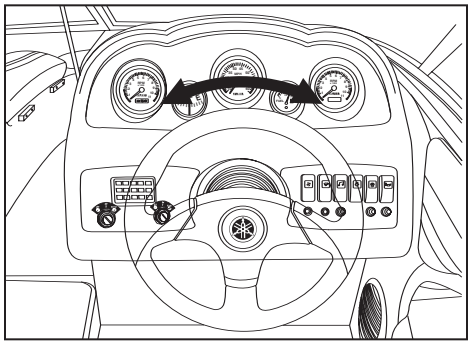
| ITEM | CHECK | PAGE REF. |
|---|---|---|
| **BEFORE LAUNCH OR OPERATION:** | | |
| STEERING | Check for proper steering operation. | 3-5 |
| THROTTLE | Check for proper throttle operation. | 3-5 |
| SHIFTING | Check for proper shift operation. | 3-5 |
| FIRE EXTINGUISHER | Check readiness of the extinguisher. | 3-6 |
| HULL | Check the hull for damage or cracks before launching. | |
| ACCESS PORT CAPS | Check for proper installation. | 3-6 |
| JET (WATER) INTAKES | Check that no debris is in the intakes before launching. | 3-7 |
| FUEL SYSTEM | Check fuel system for leaks. | 3-7 |
| FUEL AND ENGINE OIL LEVELS | Check fuel and oil level; add as necessary. | 3-7 |
| BATTERY | Check battery condition, mounting, and connection. | 3-7 |
| DRAINAGE SYSTEM | Check, and remove all water and fuel residue before launching. Be sure drain plugs are tightened. | 3-7 |
| ENGINE COMPARTMENT | Operate the blower for at least 4 minutes. Open engine hood and check to be sure no gasoline vapors are present. | 3-9 |
| ENGINE HOOD | Check that hood latch is secure. | 2-14 |
| LIGHTS AND HORN | Check lights to be sure they operate. Press horn button to be sure it operates. | 3-9 3-10 |
| BIMINI TOP | Check that the top is secure. | 3-11 |
| **AFTER LAUNCH** | | |
| SWITCHES | Check operation of the ignition start switches and engine stop switch lanyard. | 3-10 |
| COOLING WATER | Check that water comes out while the | 3-10 |

**NOTE:** Steering and Shifting Pre-Operation Checks will require two persons, one person to operate controls and one person to observe proper operation at the stern.

**NOTE:** Pre-operation checks should be made each time the boat is used. This procedure can be accomplished thoroughly in a short time. The added safety and reliability the checks assure is worth the time involved.

## CHECK POINTS

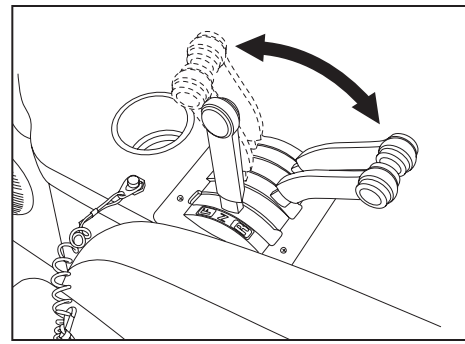
### Steering



Make sure the wheel is not loose. There should not be any free play, either in-and-out or in rotation. Turn the steering wheel full-right and full-left to make sure operation is smooth and unrestricted throughout the whole range.

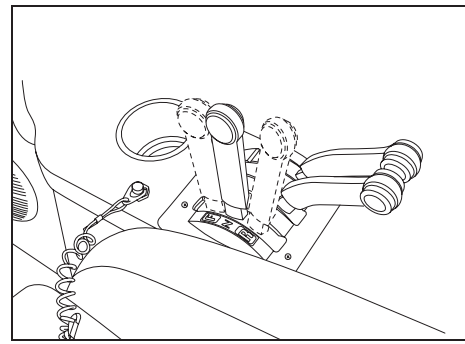
Make sure both jet nozzles change directions as the steering wheel is turned. The jet nozzles should point to starboard (right) when the wheel is turned right. The jet nozzles should point to port (left) when the wheel is turned left. There should not be free play between the steering wheel and the jet nozzles.

### Throttle

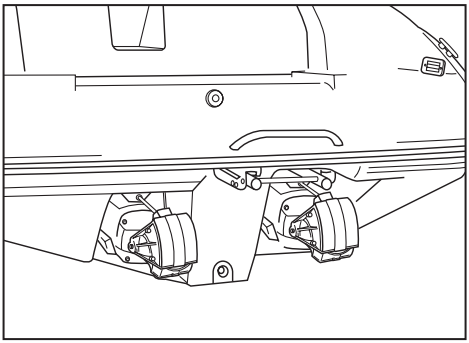


Operate the throttle levers several times to make sure there is no hesitation in their travel. Operation should be smooth over the complete range of motion, and each lever should return completely to the idle position.

### Shifting



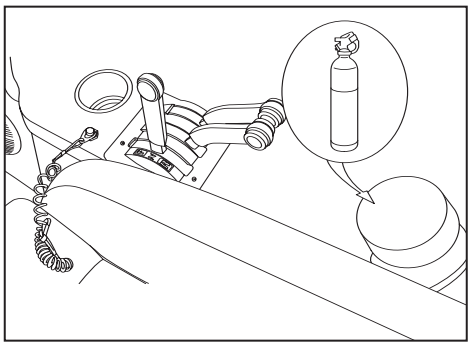
Before launching, make sure both jet pump gates drop down over the jet nozzles to their stopper positions when the shift lever is moved to the “Reverse” position. Also make sure both jet pump gates return to the full up stopper position when the shift lever is moved to the “Forward” position.



**⚠WARNING**

**Shift only with the engine idling. Do not shift when applying throttle.**

**Fire Extinguisher**



Make sure the fire extinguisher is aboard and full. See the instructions supplied by the fire extinguisher manufacturer to determine proper indication of condition.

The fire extinguisher canister is located inside the driver-side console storage compartment. Open the windshield cover, and then unscrew the canister to reach the fire extinguisher.

**⚠WARNING**

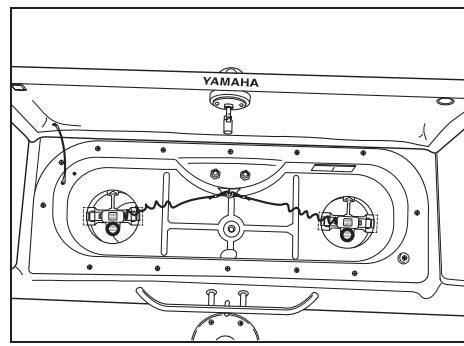
**Always carry a fire extinguisher on board.**

This Sport Boat is an inboard boat less than 26′ long. A boat of this type MUST carry a fire extinguisher of a B-1 classification, with a capacity of two pounds or more, when navigating in waters controlled by the U.S. Coast Guard. In addition, most state and local boating laws also require that the craft carry a USCG-approved fire extinguisher whenever the boat is operated.

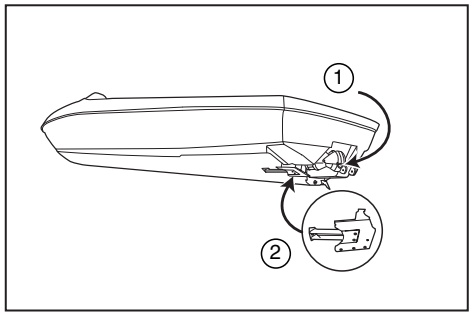
A fire extinguisher is not standard equipment with this boat. If you do not have one, contact your local Yamaha Sport Boat dealer or a fire extinguisher dealer to obtain one meeting the proper specifications.

**Access Port Caps**

Lift the hatch on the rear platform. Pull up forcefully on the T-handle of each cap. If the cap will move, it is not installed properly. Refer to “Jet Pump Clean-Out Procedure” on page 5-5 for proper installation instructions.



**Jet Intakes**




① Jet Thurst Intakes
② Intake Grates

Before launching the Sport Boat, carefully check the jet intakes under the boat for weeds, debris, or anything else that might restrict the intake of water. If the intakes are clogged, cavitation could occur, reducing jet thrust, and possibly damaging jet pump parts. In some cases, the engine may overheat because of lack of cooling water, and damage could result. Engine cooling water is fed to the engine by the jet pumps (see page 2-11).

Refer to **Jet Pump Clean-Out** procedures on page 5-5 before attempting to remove weeds or debris from the jet intake or impeller areas.

**⚠WARNING**

**Rotating parts could cause severe injury or death. Before attempting to remove weeds or debris from the jet intake or impeller areas; shut off the engines, remove ignition key, then remove the engine shut-off switch cord from the shut-off switch.**

**Fuel System**

Refer to page 4-11, "FUEL SYSTEM INSPECTION," for correct procedure.

**Fuel and Engine Oil Levels**

1) Turn the main switch key to ON. Wait for the fuel gauge needle to stop moving, then note the fuel level. Add fuel if necessary.

**NOTE:** The fuel level is most accurate when the boat is sitting level on the trailer or in the water.

2) Open the engine hatch, remove the center storage tray, then check oil level in the engines. Add as necessary (see page 3-3).

**Battery**

The Sport Boat uses one battery. Check the battery condition and the battery electrolyte level. Make sure connections are tight and that battery is properly secured.

**⚠WARNING**

**The battery must always be fully charged and in good condition. Loss of battery power may leave you stranded. Never operate the Sport Boat if the battery does not have sufficient power to start the engine or if it shows any other signs of decreased power.**

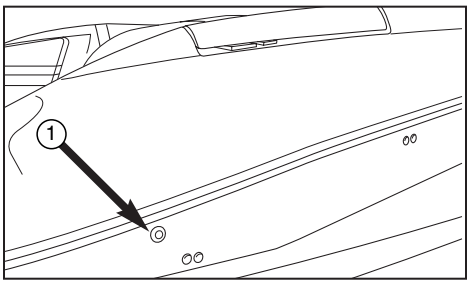
**Drainage System**

*Self-Bailing Deck—*

Most water which enters the deck area bails automatically out the stern

through the large drain hole in the deck. A one-way check valve in the drain prevents water from traveling back to the deck during mooring or while moving in reverse.

*Bilge Pump –*

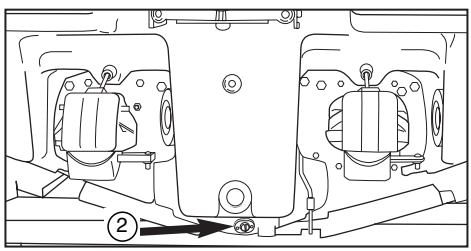



Your Sport Boat is equipped with a drainage system that channels water that enters the boat from the storage compartments to the bilge under the engine compartment. When the bilge pump is turned on (see page 2-11), the pump will sense when there is excessive water in the bilge and will automatically drain most of it through the outlet ①. For normal operation, turn the bilge pump switch on during boat use and turn it off when leaving the boat.

**CAUTION:**

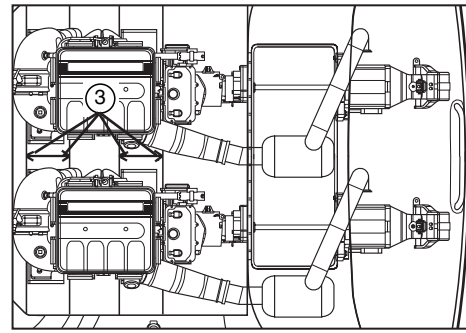
**If the Sport Boat is to be left in the water after use, leave the bilge pump switch in the ON position. The pump will activate if needed to drain any water accumulating in the bilge.**

*Drain Plug –*




A drain plug is located at the center of the stern to allow more complete draining when the boat is removed from the water.

*Engine Compartment and Fuel Compartment Drain Plug –*




Water will not normally enter the engine compartment or fuel compartment areas during operation. If it does, open the drain plugs ③ and allow water to drain. Also open the engine compartment plug when flushing the engine area with fresh water after salt water operation.

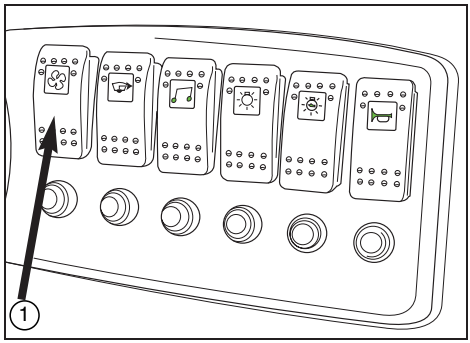
**CAUTION:**

- **Excessive water in the engine compartment bilge can splash into the carburetor and engine. This could cause engine damage.**
- **Be sure all drain plugs are tightened before operating your Sport Boat.**

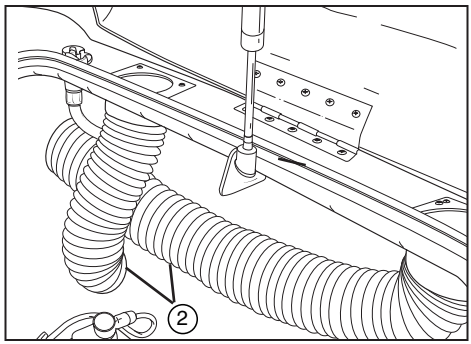
**⚠WARNING**

**Gasoline and its vapors are highly flammable and explosive. If a fuel or a fuel/water mix drains from the fuel tank compartment drain or is found in the engine compartment, wipe it up immediately with dry rags. Do not operate the boat until the source of the fuel leak is found and corrected.**

### Engine Compartment




Operate the bilge blower switch ① for at least 4 minutes before starting the engines. Open engine hood and check to be sure no gasoline vapors are present. Check for fuel leaks or loose electrical connections.

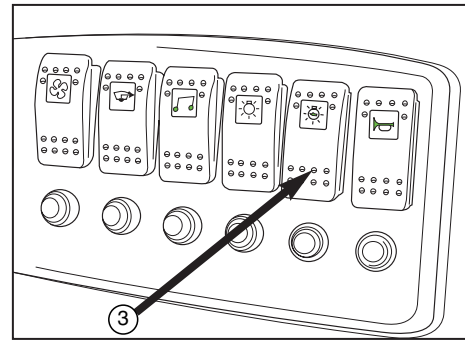



② Blower motor

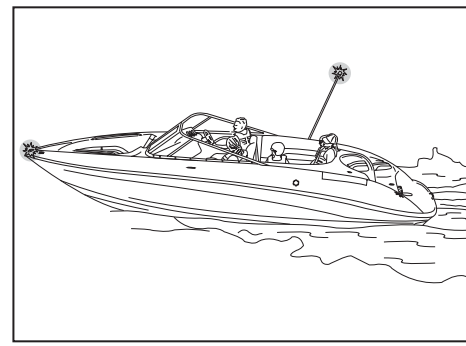
**⚠WARNING**

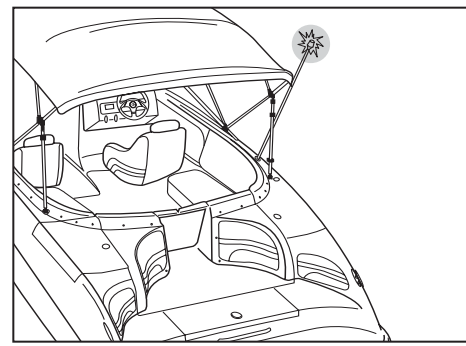
**Gasoline vapors can explode. Before starting the engines, operate the blower for at least 4 minutes and check the engine compartment bilge for gasoline vapors. Do not start the engines if you can smell fuel vapors in the engine compartment or if there are any loose electrical connections. Contact your dealer if there is a problem you cannot locate or correct.**

### Lights




Check for proper operation of the bow, stern, and instrument lights by pressing the switch ③ on the control panel.

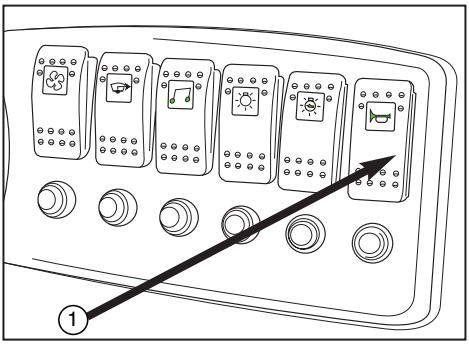




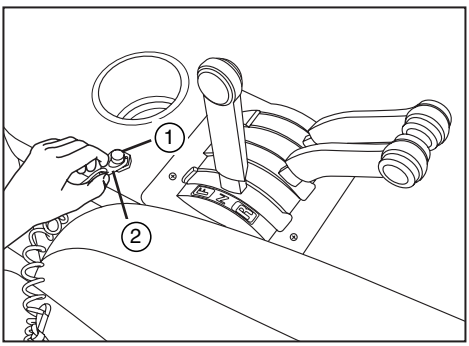
If the stern light is not installed, remove it from the storage area, lift the socket cover, and install it into the socket to check operation.

**Horn**

Press the horn switch ① to be sure the horn operates.




**Engine Shut-Off Switch**




① Engine shut-off switch

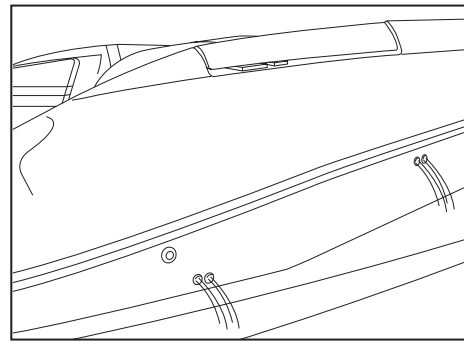
② Clip with cord

First, place the boat in the water to provide adequate engine cooling. Start the engine, and then remove the engine shut-off switch clip, and verify that the engine stops.

Refer to pages 3-13 to 3-15, “STARTING THE ENGINES,” for information on proper operation of the starter switch.

**Cooling-Water Pilot Outlets**

Check that water comes out from the pilot outlets while engine is running in the water. Refer to page 2-10 for correct operation of the device.



**NOTE:** It may take up to 20 seconds for water to reach the pilot outlets when first launching the boat. The amount and force of the exiting water will vary with engine rpm.

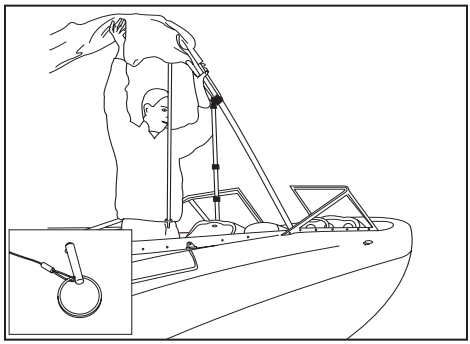
**CAUTION:**

**A continuous flow of water from the pilot hole shows that water is flowing through the engine cooling passages. If water is not flowing out of the pilot hole during operation, do not continue to run the engines. Overheating and serious damage could occur. See Overheat Warning System, page 2-10, for more information.**

**BIMINI TOP ((Optional)**

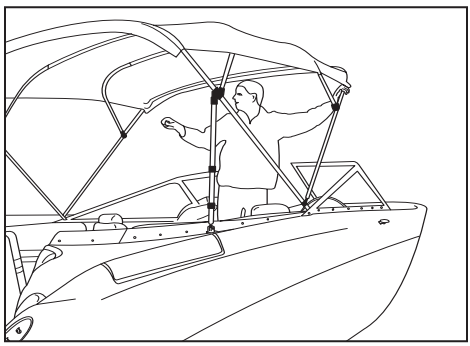
Raising from the fully collapsed storage position.

1) With an assistant, raise the top and secure the rear support poles to the rear support pole mounts with the lock pins.

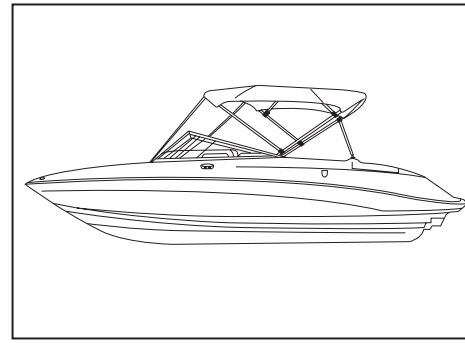


2) Unzip and remove the storage cover.

3) Unfold the top by pulling to the bow of the Sport Boat.



4) Attach the snap hooks to the strap eyes.



5) The top should be snug and wrinkle free. If the top is too loose or too tight, adjust the front straps by sliding the buckle up or down the strap as needed.

**CAUTION:**

**Do not exceed 45 mph (72 km/h) with the bimini top in the up position.**

**Storing**
**In The Upright Position**

1) Raise the rear support poles.
2) Unhook the front straps and pull the top to the back.
3) Roll the fabric around the frames and zip the storage cover in place.

**CAUTION:**

**Do not trailer the boat with the Bimini top in the fully extended or upright storage positions. Put the cover in the fully collapsed position to avoid damage.**

**Storing**
**In the Fully Collapsed Position**

1) Follow the steps for storing in the upright position.
2) Remove the snap pins holding the rear support poles to the mounting brackets.
3) Lower the top onto the rear deck/hatch.

**Trailering with the Bimini Top**

The Bimini top must be secured to the boat when it is being trailered. When trailered with a Genuine Yamaha Cover, simply store the Bimini top in the fully collapsed position and install the cover. If a cover is not used, wrap an elastic cord around the top and secure the ends to the ski tow hook to restrict movement.

**Removing the Bimini Top**

1) Follow the steps for storing in the fully collapsed position.
2) Remove the lock pins holding the Bimini top to the mounting brackets.
3) The top can now be removed from your Sport Boat.

When reinstalling the Bimini top, simply reverse the removal steps making sure the lock pins are fully engaged.

See page 4-4 for Bimini top care information.

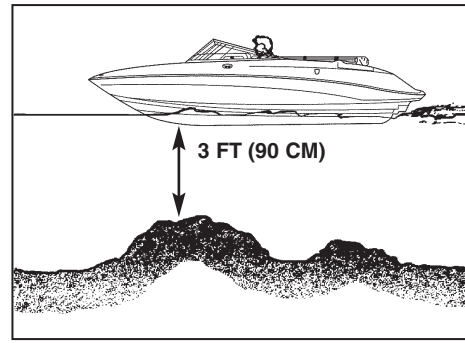
# OPERATION

## STARTING THE ENGINES

**⚠WARNING**

**SEVERE INJURY OR DEATH MAY RESULT IF YOU IGNORE ANY OF THE FOLLOWING:**

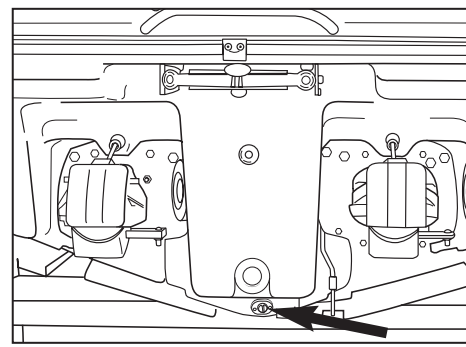
- **Before operating your Sport Boat, become familiar with all controls. Consult your Yamaha dealer about any control or function you do not fully understand.**
- **Attach the engine shut-off switch cord to your personal flotation device before operating. Failure to attach cord could result in a runaway boat if operator is ejected.**
- **Check throttle, steering and shift lever for proper operation before starting the engine.**
- **Shift into Neutral before starting engines. Put throttle levers in idle position before shifting.**
- **Never start the engine or let it run any length of time in an enclosed area. Exhaust fumes contain carbon monoxide, a colorless, odorless gas that may cause loss of consciousness and death within a short time. Always operate the boat in an open area.**




1) Always make sure the boat is launched and used in waters that are free from weeds and debris, and at least 3 ft (90 cm) deep.

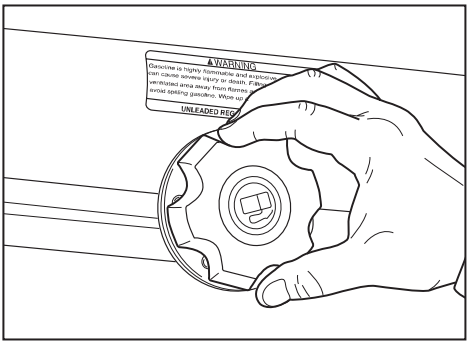
**⚠WARNING**

**Never operate in water that is less than 3 ft (90 cm) deep. You increase your chance of hitting an underwater obstacle. You could be injured. Pebbles or sand can also be sucked into the jet (water) intake, damaging the impeller.**

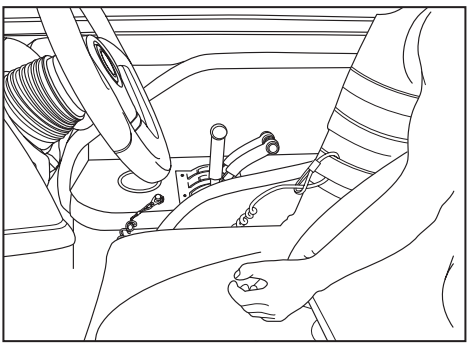


**CAUTION:**

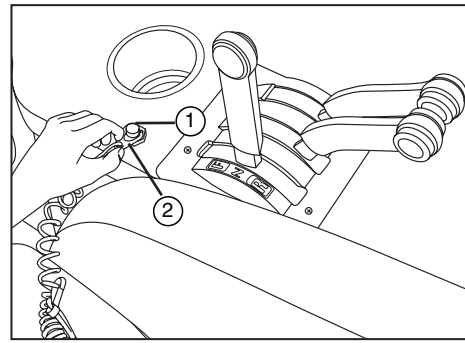
**There is a hull drain plug at the bottom of the stern in the center. Be sure it is securely tightened before launching the Sport Boat.**




**NOTE:** Before the first start-up, remove the fuel tank filler cap to release any built-up pressure in the tank because of fuel expansion.



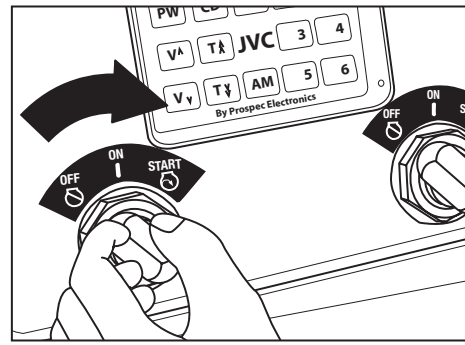
2) Attach the engine shut-off cord to your PFD. Install the cord clip onto the engine shut-off switch by pushing the clip groove over the nut beneath the knob. Be sure the cord is not wrapped around the steering wheel or tangled in the controls.




① Engine shut-off switch

② Clip with cord

**NOTE:** It is not possible to start the engine with the clip removed from the engine shut-off switch. However, the starter motor will turn the engine over.




4) Put the throttle levers in the idle position. Shift into Neutral. Turn the ignition key of one engine to “Start.” When the engine starts, release the key. Repeat for the other engine. If the engine will not start or doesn’t stay running, move the throttle levers forward slightly and try again.

**CAUTION:**

**Never turn the ignition key to "Start" while the engine is running. Do not keep the starter motor running for more than 5 seconds. If the engine does not start after 5 seconds of cranking, release the starter button. Wait at least 15 seconds before trying to start the engine again. If the starter motor is engaged continuously for more than 5 seconds, the battery will be quickly discharged, and it will be impossible to start the engine. The starter motor may also be damaged if it is engaged continuously for more than 5 seconds.**

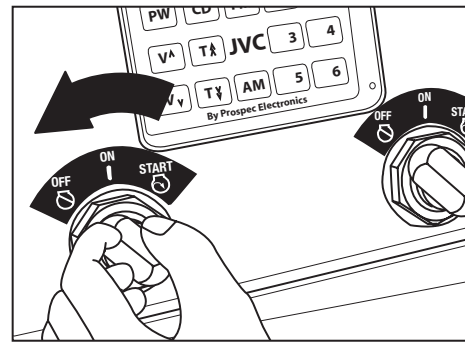
**NOTE:**

- Be sure the shift lever is put in the Neutral position or the starter motor will not operate.
- On this boat, the engines are connected directly to the drive unit. Starting either engine generates some thrust immediately. Only enough throttle should be applied to keep the engine at a fast enough idle to stay running.

**CAUTION:**

**Do not operate the Sport Boat with just one engine running. Severe engine damage could result because water can flood the non-operating engine through the cooling water intake. If single-engine operation is unavoidable, operate the boat at a "no wake" speed only.**

## STOPPING THE ENGINES




To stop the engine, return the throttle levers to the idle position, then turn the main switches to "Off." The engines can also be stopped by pulling the engine stop switch lanyard.

**⚠WARNING**

**Once the engine has stopped, you have NO STEERING CONTROL over the boat. You could collide with another boat, a dock, or other obstacle.**

**NOTE:**

- Remove the ignition keys and the engine stop switch lanyard if the boat will be left unattended.
- Stopping the engines immediately after operating at high rpm is not recommended. Let the engines cool off at idle or low speed for a few minutes first.

## BREAK-IN PROCEDURE

The engine break-in period is essential to allow the various components of the engine to wear and polish themselves to the correct operating clearances. This ensures proper performance and promotes longer component life.

1) Launch the boat and start the engine. (See page 3-13).
2) For the first 5 minutes, run the engine at trolling speed. For the 30 minutes of operation after that, keep the engine speed below 5,000 rpm. For the hour of operation after that, keep the engine speed below 8,000 rpm.
3) Proceed with normal operation.

# DRIVING YOUR SPORT BOAT

## GETTING TO KNOW YOUR SPORT BOAT

Operating your Sport Boat requires skills acquired through practice over a period of time. Take the time to learn the basic techniques well before attempting more difficult maneuvers.

Boating with your new Sport Boat can be a very enjoyable activity, providing you with hours of pleasure. But it is essential to familiarize yourself with the operation of the Sport Boat to achieve the skill necessary to enjoy boating safely. Before operating this Sport Boat, read this Owner's Manual, the Operation Instruction Card, and all Warning and Caution labels on the boat. Pay particular attention to the safety information in Chapter 1. Read all warning and caution labels on your Sport Boat.

This Sport Boat is designed to carry one operator and up to nine passengers, as long as the total weight of people and cargo does not exceed 1800 lb (816 kg). Never have more than ten people in the boat.

## LEARNING TO OPERATE YOUR SPORT BOAT

Before boating, always perform the Pre-Operation Checks listed on page 3-4. The short time spent checking the machine's condition will reward you with added safety and a more reliable Sport Boat.

Know and follow U.S. Coast Guard, state, and local laws when operating your Sport Boat.

Select a wide area to learn in, where visibility is good and other boat traffic is light. Keep the proper distance from other boats and vehicles. Do not operate where people are swimming.

Always attach the engine stop switch lanyard to your personal flotation device before operating.

You and all other passengers must always wear a U.S. Coast Guard-approved personal flotation device when riding in the Sport Boat. You should consider wearing water shoes, eye protection, gloves, and other protective apparel. Water sports increase your risk of injury from contact with your boat, other vessels, docks, rocks, or coral.

A water-skier should wear protective clothing. Severe internal injuries can occur if water is forced into body cavities as a result of falling into the water or while reboarding. Normal swimwear does not adequately protect against forceful water entry into rectum or vagina. The skier should wear a wetsuit bottom or clothing that provides equivalent protection. Such clothing includes thick, tightly woven, sturdy and snug fitting apparel such as denim, but does not include spandex or similar fabrics like those used in bicycle shorts.

Grip the wheel firmly and keep both feet on the deck when driving the Sport Boat.

## TURNING THE SPORT BOAT

Steering control depends on the combination of steering wheel position and the amount of throttle.

Water sucked in through the intake grate is pressurized by the impeller in the jet pump. As the pressurized water is expelled from the pump through the jet thrust nozzle, it creates thrust to move and steer the Sport Boat. The higher the engine speed, the more thrust is produced.

The amount of jet thrust, in addition to the position of the steering wheel, determines how sharply you turn.

A. More throttle produces high thrust, so the Sport Boat will turn more sharply.

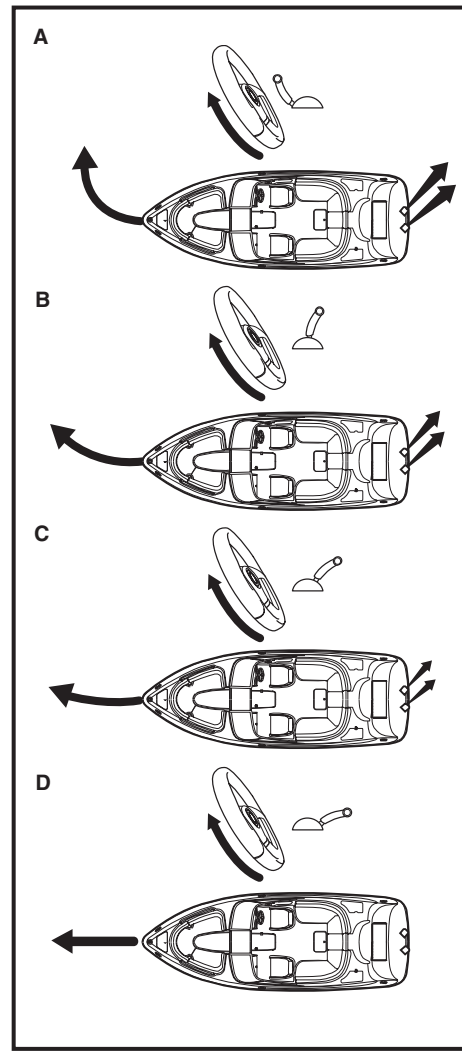
B. Less throttle produces low thrust, so the Sport Boat will turn more gradually.

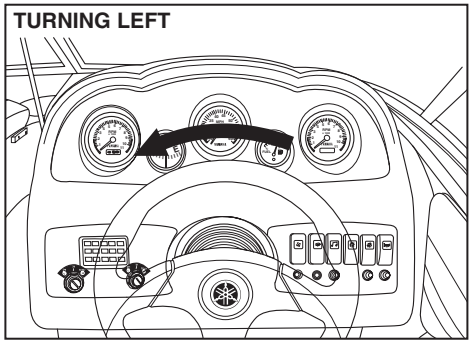
C. Pulling the throttle levers completely back to idle produces only minimum thrust. If you are traveling at speeds above trolling, you will have rapidly decreasing ability to steer without throttle. You may still have some turning ability immediately after pulling the throttle levers back to idle, but once the engine slows down, the Sport Boat will no longer respond to steering wheel input until you apply throttle again or you reach a trolling speed.

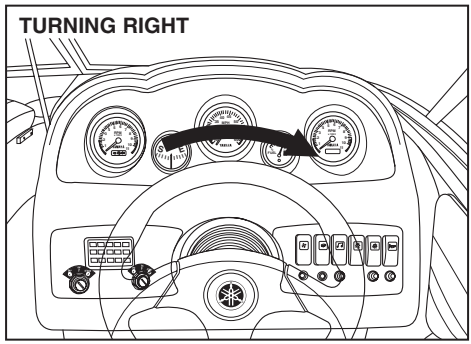
   At trolling speed, the Sport Boat can be turned gradually by steering wheel position alone using just the amount of thrust available at engine idle.

D. If the engines are stopped, there is no thrust. The Sport Boat will go straight even though the steering wheel is turned.

**YOU NEED THROTTLE TO STEER.**






**⚠WARNING**

- **Do not pull the throttle levers back to idle when trying to steer away from objects – you need throttle to steer.**
- **Be sure passengers are holding on before making turns. An unprepared passenger could lose balance and fall.**

## BOATING WITH PASSENGERS

When one or more passengers are on board, the boat may handle differently, so operating it requires a higher degree of skill.

Remember: Your Sport Boat is designed for one operator and up to nine passengers only. Never have more than ten people in the Sport Boat. Passengers should sit so the weight in the boat is balanced from side-to-side and bow-to-stern as much as possible. If the passenger seat in front of the helm is used, be sure the operator's view ahead is not obstructed.

Passengers must sit in one of the seats and hold onto the grips while putting both feet on the deck.

**⚠WARNING**

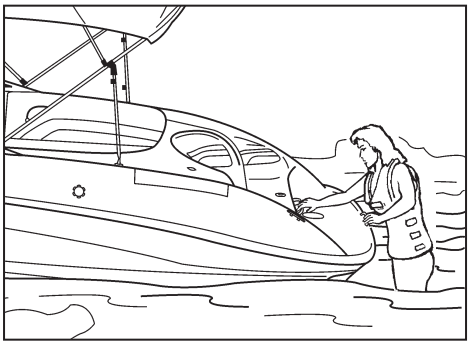
**When passengers are on board, make sure they are seated and holding on before you start to accelerate. An unprepared passenger could lose balance and fall.**

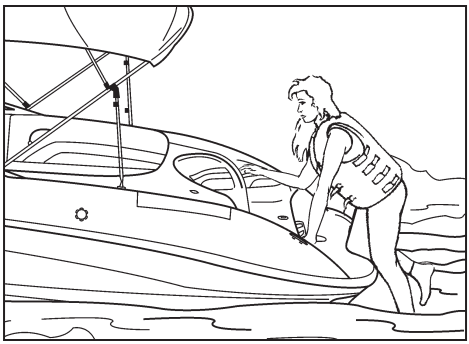
## BOARDING FROM THE WATER

**⚠WARNING**

**Severe internal injuries can occur if water is forced into body cavities as a result of being near the jet thrust nozzles.**

- **Do not board from the rear, use swim platform, or swim behind boat if engines are running.**
- **Stay away from the back of the boat when engines are running.**





1) Be sure engines are off, then move to the stern of the boat. Pull out the ladder and climb up onto the step. Return the ladder to the stowed position before climbing into the boat.

**⚠WARNING**

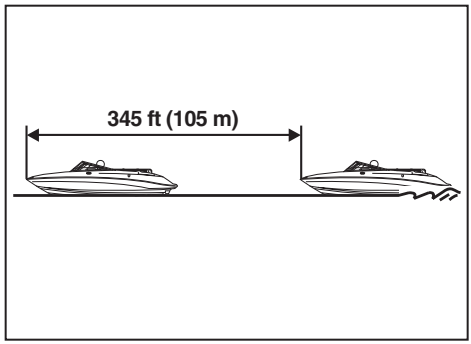
**Stay away from the swim step while the engines are running. Exhaust gases coming from underneath it contain carbon monoxide, a colorless, odorless gas which may cause brain damage or death when inhaled. Symptoms include nausea, dizziness, and drowsiness.**

2) Climb up onto the swim platform, then sit in one of the seats provided.

## BOARDING FROM A DOCK OR LANDING JETTY

1) Board the boat from the side. One person should board at a time by stepping into the boat. Never jump in. Avoid stepping on slick gelcoat surfaces on the boat's gunwales, especially if wet.
2) Sit in one of the seats provided and put both feet on the deck.

## STOPPING




The Sport Boat is not equipped with a separate braking system. It is stopped by water resistance after the throttle levers are moved back to idle. From full speed, the Sport Boat stops in approximately 345 ft (105 m) after the throttle is moved back to idle. The stopping distance varies depending on gross weight, water surface conditions, and wind direction. The stated straight-line stopping distance should be used for a reference. The boat slows down as soon as the throttle levers are returned to idle but will coast for a distance before fully stopping. If you are not sure you can stop in time before hitting an obstacle, apply throttle and turn in another direction.

**⚠WARNING**

**You will lose steering control if you completely pull the throttle levers back to idle.**

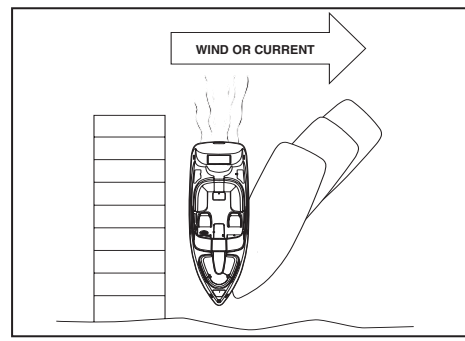
## DOCKING

1) Make sure no obstructions, boats or swimmers are close to the Sport Boat. Come to a stop before you reach the dock.
2) Notice how wind and water currents are affecting boat movement as you attach your mooring lines and fenders.
3) Approach the dock at idle speed. Use reverse as necessary during slow speed maneuvering to help control speed and direction. Position the boat according to wind and water conditions.

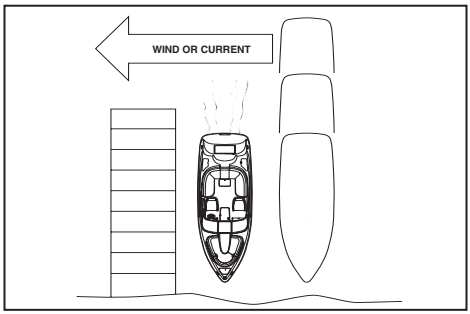
**⚠WARNING**

**Do not use your hand, arm, or other part of your body to try to keep the boat from hitting the dock. You could be injured if the boat pushes against the dock.**

**Wind or current pushing boat away from dock:**
Slowly approach the dock at about a 45° angle. Secure the bow to the dock, then use engine thrust or a boat hook to gently move the stern to the dock.



**Wind or current pushing boat toward dock:**




Slowly maneuver to a shallow angle and allow the boat to move toward the dock.

**No wind or current:**
Approach the dock at a shallow angle. Secure the bow to the dock, then use engine thrust or a boat hook to gently move the stern to the dock.

## LEAVING A DOCK

Because boats steer from the stern, the stern first moves in the direction opposite your desired turn. It is especially important to understand this characteristic when leaving a dock. If you simply turn the wheel to steer the bow away from the dock, as you would when driving a car out of a parking space, you will drive the stern of the boat into the dock. Following is a basic maneuvering technique which can be used in most circumstances.

1) With engines idling and the bow still moored to the dock, turn the steering wheel toward the dock. This will start to move the stern of the boat away from the dock.
2) When the stern is out a few feet, release the bow mooring then steer in the direction you want the bow to move. Open the throttle slightly and begin to move away from the dock.

## BEACHING

1) Make sure no obstructions, boats or swimmers are near the beach.
2) Approach the beach slowly and stop the engines when the water is about 3 ft (90 cm) deep. Remember: turning is impossible with the engine stopped.
3) Get out of the boat and pull the bow up on the beach.
4) When leaving the beach, push the boat out into water that is at least 3 ft (90 cm) deep before starting the engines.

**CAUTION:**

- **Small pebbles, sand, seaweed, and other debris can be ingested into the jet intake and impair or damage the impeller. Always stop the engines before beaching the boat. Be sure the boat is in water 3 ft (90 cm) deep before starting the engines again.**
- **Do not beach the boat on rocky beaches. The hull gelcoat and exposed pump housings can be damaged.**
- **Pay attention to shifts in tides. Beaching at high tide may make it impossible to re-launch the boat if the tide recedes.**

## ANCHORING

**⚠WARNING**

**Always anchor from the bow. Anchoring from the stern will make the boat unsteady. A strong current can pull a stern-anchored boat underwater.**

Select an anchor appropriate for your boat and water conditions. A “danforth” (or fluke) type anchor is suitable for most applications; your dealer can help you choose an anchor.

1) Make sure the anchor line is securely tied to the anchor and to the bow eye.
2) Move the boat to the spot where you want to lower the anchor, heading the boat into the wind or current. Stop the boat, then lower the anchor until it hits bottom.
3) While keeping tension on the line, slowly back up the boat until you have let out line that is 4 to 6 times the depth of the water. For example, if you are anchoring in 10 feet of water, let out 40 to 60 feet of line. Secure the line.
4) Pull on the line to be sure the anchor is holding. Also, periodically check your boat’s position against the shoreline to make sure it is not drifting and dragging the anchor. Reset it if necessary.
5) To pull in (“weigh”) the anchor, start the engines and move forward, keeping tension on the line as you pull it in. When the anchor line is straight up and down, pull hard to lift the anchor from the bottom material.
6) If the anchor is stuck on the bottom, try this: Let out a few feet of anchor line and secure the line to the boat, again. Slowly maneuver the boat around the anchor until the anchor pulls loose. Keep the line taut during this procedure.

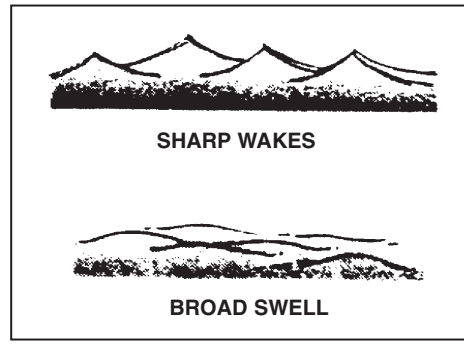
## CROSSING WAKES AND SWELLS

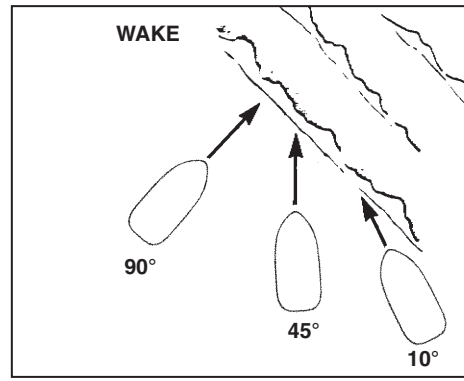
You will not always have flat, smooth water. There will be swells, wakes from other boats, etc.

The best way to cross wakes and swells is with the least jolt to you and the boat. Small swells are not as difficult to cross as larger swells or wakes. Crossing a sharp wake gives more of a jolt than a broad swell.

To cross a wake or swell, change your speed and choose the angle at which you cross the wake or swell. Usually, a slower speed and “quartering” the wake (crossing at an angle) will reduce the jolt.

Two other things you may notice. The first is that crossing a group of wakes or swells is not as easy or smooth as crossing just one wake. The second is that when you quarter the wake or swell the boat will try to steer away from the wake or swell. When crossing at a 45° angle, you may not notice this, but at a smaller angle, say 10°, it can be very strong. Be prepared to steer and balance as necessary.



# POST-OPERATION CHECKS

### POST-OPERATION CHECKS

These post-operation procedures are developed to help preserve the long-term appearance and reliability of your Sport Boat. Perform these procedures as soon as possible after the boat is loaded back on the trailer after the day's use.

Some owners plan to moor their boat seasonally, rather than keeping it on the trailer between uses. The procedures described in this section may not be possible if your Sport Boat is moored in the water. Boats which are moored will require periodic removal from the water to clean the hull and jet pump area. The frequency of this maintenance will depend upon whether the water is salt or fresh, as well as other local water conditions.

**CAUTION:**

**Leaving the boat in the water for extended periods will accelerate the rate of normal deterioration of the jet pump components and hull finish. Stray electrical voltage in the water, marine organisms, and salt-water corrosion are a few of the conditions that can adversely affect the life of many Sport Boat components.**

1) After putting the Sport Boat on the trailer, flush cooling system on each engine to prevent the cooling system from clogging up with salt, sand, or dirt. Refer to page 4-1 for the cooling system flushing procedure.

2) Drain residual water from the exhaust system by starting the engine then alternately pushing the throttle lever up to half throttle and back for 10 to 15 seconds.

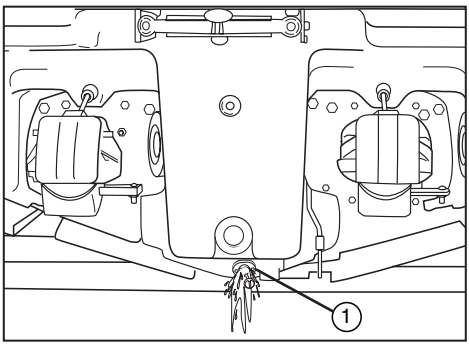
**CAUTION:**

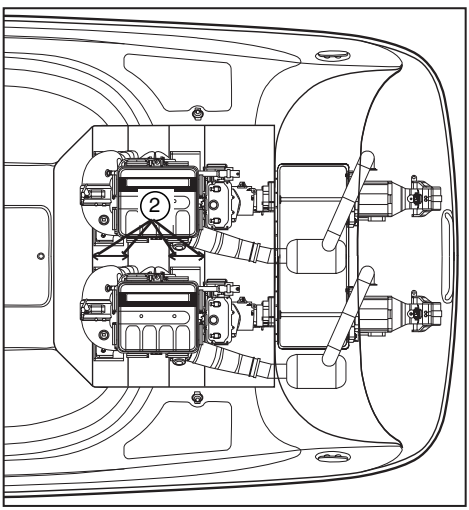
**Never run the engine at full throttle or for more than 15 seconds while the boat is out of the water. The engine may overheat and/or seize.**

3) Wash down the hull, helm, and both jet drive units with fresh water.

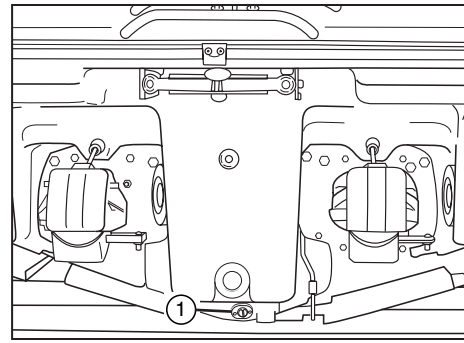
4) Open the rear platform hatch, and check for any water pooled on top of the clean-out port caps. If water is found, remove the caps, let water drain, then reinstall the caps. See Page 5-5 for more information.

5) Remove hull drain plug ① and the engine compartment drain plugs ②. Rinse the engine compartment with a small amount of fresh water. Be careful not to get water on the carburetor or electrical components. Allow any water in the bilge to drain out. After the water has drained, wipe the engine compartment and bilge with dry rags. Reinstall all drain plugs.




**NOTE:** This boat is equipped with an electric bilge pump that automatically removes excess water from the bilge while you are underway. However, some residual water remains that must be drained by removing the drain plug.




**CAUTION:**

**Tighten the hull drain plug ① securely before launching the Sport Boat. Clean any foreign material, such as dirt or sand, from the threads before installing the drain plug.**

6) Spray a rust inhibitor, such as Yamaha Silicone Protectant and Lubricant, on metallic parts to minimize corrosion.

# TRAILERING

**⚠WARNING**

**Avoid accident and injury from improper trailering:**

- **The trailer must be matched for the Sport Boat's weight and hull.**
- **The towing vehicle must have the capacity of pulling the load. Pulling a load that exceeds the towing capacity may cause loss of control.**
- **Be sure the boat is secured to the trailer and the trailer is properly hitched to the towing vehicle before towing.**

A trailer is provided as standard equipment with your Sport Boat. If you need to obtain another trailer, choose one that is manufactured to carry a boat of the size and weight of your Sport Boat. Check the certification label on the left forward side of the trailer. This label is required to show the Gross Vehicle Weight Rating (GVWR), which is the load carrying capacity of the trailer plus the trailer's weight. Be sure that the total weight of your boat, any cargo, and the trailer weight itself does not exceed the GVWR.

## HITCH

The trailer hitch ball must match the size of the socket on the trailer hitch coupler. Hitches are divided into classes that specify the gross trailer weight (GTW) and the maximum tongue weight. Always use a hitch rated for the same or higher class. Use a bolted-on or welded-on hitch; clamp-on bumper hitches are not recommended. Be sure the trailer hitch's release handle is latched with the lock pin installed before towing.

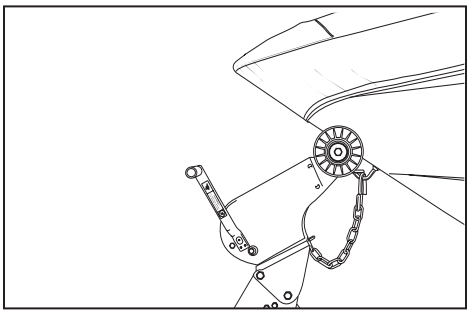
Use safety chains between the towing vehicle and the trailer so the trailer will not detach completely from the towing vehicle if it accidentally comes loose from the hitch ball. Crisscross the chains under the trailer tongue so the tongue will not hit the road surface if it falls loose. Rig the chains as tightly as possible while allowing just enough slack to permit tight turns.

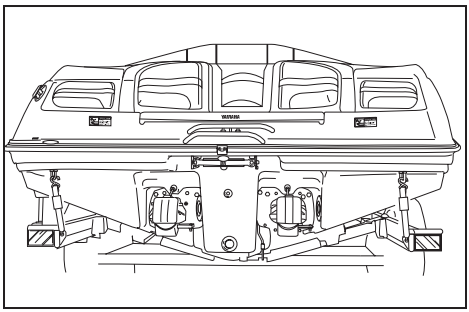
Be sure the tongue weight (vertical weight on the hitch point) is correct. Generally, 5% to 10% of the combined weight of the boat and trailer should be on the tongue. Too much or too little weight can cause difficult steering or trailer swaying.

## TRAILERING CHECKLIST

- Check your state laws to be sure your trailer meets all regulations, such as proper licensing, brake, axle load, and safety chain requirements.
- Check trailer for any loose fasteners or damaged parts.
- Check tires for proper inflation.

- Check wheel bearings and wheel lug nuts before each trip.
- Check tail, brake, and turn signal lights for proper operation.
- Secure the bow of the boat to the trailer with the winch line and also with the chain. Secure the stern cleats to the trailer with tie-downs.

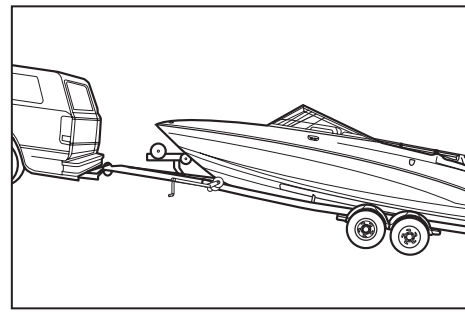




- Take down and store the bimini top, if used. The top is not designed to stay unsecured on the Sport Boat at highway speeds. See page 3-12.
- Carry a spare tire for the trailer, along with sufficient tools to change the tire.
- While traveling, check the wheel hubs on the trailer whenever you park. If the hub feels abnormally hot, have the bearing inspected before continuing your trip. On longer trips, it is a good idea to carry a set of spare wheel bearings, seals, and races.
- When making a turn, do not cut corners. The trailer has a smaller turning circle so it turns more sharply around the corner than the towing vehicle.
- Before backing your trailer into the water, disconnect the light plug from the towing vehicle. This will reduce the likelihood of the lights blowing out when submerged.

## BACKING YOUR TRAILER

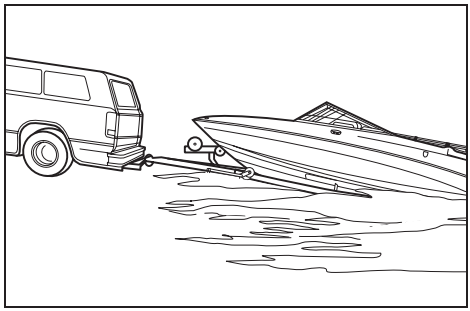
It takes practice to back a trailer successfully. If you are not familiar backing up with a trailer, practice first in an open area away from obstacles.



Keep the following points in mind:

- Back slowly. Make steering adjustments in small steps.
- Turn the towing vehicle's wheels opposite the direction you want the trailer to go.
- After the trailer begins moving, turn the towing vehicle to follow it.
- Have a second person stand by to help direct you with hand signals.

## LAUNCHING



As a courtesy to other boaters, prepare your Sport Boat for launching before using the ramp.

Each launch may have particular differences, such as ramp angle, prevailing wind, waves, and water currents. If possible, watch a couple of boaters launch their boats first to notice any problems. While every boater develops a preferred launch procedure, here is a recommended general procedure:

1) Perform the Pre-Operation Checks shown on page 3-4 that can be performed on land, including operating the blower for at least 4 minutes.
2) Remove all trailering tie-down lines from the boat and attach your docking lines and fenders, if used.
3) Disconnect the trailer lights from the towing vehicle.
4) Back the trailer down the ramp as close to 90° to the shoreline as you can. If possible, have a second person stand aside as an observer. Stop when the wheels are at least halfway submerged. Set the parking brake.
5) Remove the bow line from the bow eye.
6) Back the trailer farther into the water until just the tops of the fenders show, then reset the parking brake. Board the boat and start it. If possible, remain on the trailer until the engines are warm and are responding to throttle.
7) Back the boat out into the water, watching carefully for people, other boats, or obstacles.

## LOADING

1) Disconnect the trailer lights from the towing vehicle.
2) Back the trailer down the ramp as close to 90° to the shoreline as you can. If possible, have a second person act as an observer while standing to the side of the boat. Stop when the tops of the trailer's fenders are about 3 inches above the waterline.
3) With the boat moving at the slowest idle speed, guide the boat onto the support rails. Use throttle only if necessary for steering ability.

**⚠WARNING**

**Using too much throttle can cause the boat to jump over the front of the trailer which can result in injury to the boat operator and bystanders. Use only enough throttle to maneuver the boat into the correct position.**

4) Make sure the boat is centered on the support rails and is headed straight for the bow stop (bumper board). Ease the boat forward until the bow rests against the bow stop.

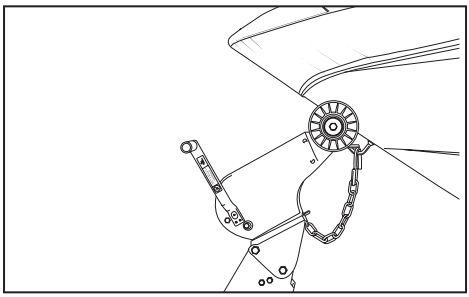
5) Attach and tighten the winch line.

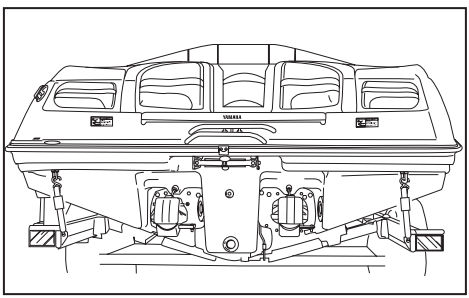
**CAUTION:**

- **The winch line is not designed to pull the boat onto the trailer.**
- **The winch line should not be the only line securing the bow during trailering. Use the chain along with the winch to secure the boat to the trailer.**

6) Pull the trailer up the ramp out of the way of other boaters. Attach the bow and stern tie-downs. Reconnect the trailer lights.

7) Follow the Post-Operation Checks on page 3-25.





## LIFTING

**CAUTION:**

**Do not attach lifting cables to the bow eye, cleats, water-ski tow eye, or grab handles. Serious damage to the boat can occur. Use only a sling designed specifically for lifting boats.**

If you need to remove the Sport Boat from the water without a trailer, use these guidelines:

- Use a sling-type lifting mechanism designed for lifting boats. The sling should be covered with a protective material to prevent damage to the hull gelcoat.
- Use spreader bars to avoid side stress to the hull that may cause cracks in the gelcoat and fiberglass.
- Attach guidelines to the bow eye and stern tie-down cleats to control movement of the boat during lifting.
- Remove all people and all cargo from the boat. Drain any excess water from the bilge using the bilge pump.
- Be sure all people are standing clear, then lift boat slowly and just far enough to verify that the boat is securely held and properly balanced. If necessary, lower the boat again and adjust the slings.
- When ready, lift the boat slowly and carefully.

# Chapter 4
# MAINTENANCE AND CARE


**STORAGE** . . . . . 4-1
- Fuel System . . . . . 4-1
- Cooling System Flushing . . . . . 4-1
- Lubrication . . . . . 4-2
- Battery . . . . . 4-3
- Cleaning . . . . . 4-4

**ADJUSTMENT AND MAINTENANCE** . . . . . 4-5
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- Spark Plug Cleaning and Adjustment . . . . . 4-7
- Grease Points . . . . . 4-8
- Fuel System Inspection . . . . . 4-10
- Engine Oil . . . . . 4-11
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- Steering Cable Inspection . . . . . 4-13
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- Battery . . . . . 4-15

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# STORAGE

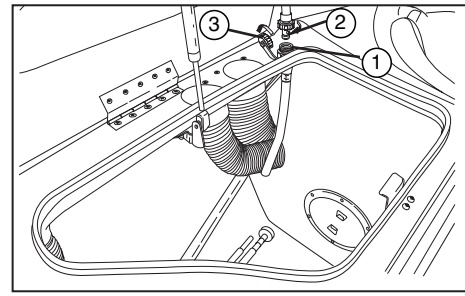
Storing your Sport Boat for prolonged periods of time, such as winter storage, requires preventative maintenance to ensure against deterioration. It is advisable to have the Sport Boat serviced by an authorized Yamaha Sport Boat dealer before storage. However, the following procedures can be performed by the owner with a minimum of tools.

## FUEL SYSTEM

Top off the fuel tank with fresh fuel, adding one ounce of Yamaha Fuel Conditioner and Stabilizer or an equivalent to each gallon of fuel. A full fuel tank is less likely to allow condensation to collect in the tank, reducing the chance of contaminated fuel. Running the engines with treated fuel during cooling system flushing will also help protect carburetors and fuel lines.

**NOTE:** Use of Yamaha Fuel Conditioner and Stabilizer eliminates the need to drain the fuel system. Consult your Yamaha dealer or other qualified mechanic if the fuel system is to be drained instead.

## COOLING SYSTEM FLUSHING




① Flush Hose Connector
② Garden Hose Adapter
③ Cap

Cooling system flushing is essential to prevent the cooling system from clogging up with salt, sand, or dirt.

1) Open the cap for the engine you are going to flush. Press the flush kit garden hose adapter into the flush hose connector and turn until they are securely connected.

2) Start the engine, then immediately turn on the water supply fully.

**CAUTION:**

- **Never turn on the water before starting the engine. The water could flow back through the muffler into the crankcase causing severe engine damage.**
- **Be sure to turn on the water immediately after starting the engine to prevent engine overheating.**

3) Run the engine at a fast idle for 10~15 minutes.

4) Turn off the water supply, then drain residual water from the exhaust system by alternately pushing the throttle lever up to half throttle and back for 10 to 15 seconds. Shut off engine.

**CAUTION:**

**Never have the water on when the engine is not running. The water could flow back through the muffler into the crankcase causing severe engine damage. Do not run the engine for more than 15 seconds after the water supply has been turned off to avoid engine overheating.**

5) After stopping the engine, remove the garden hose adapter.

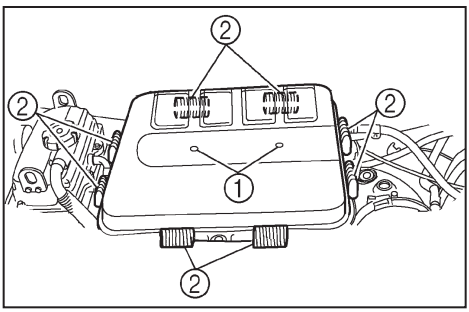
6) Replace the cap securely.

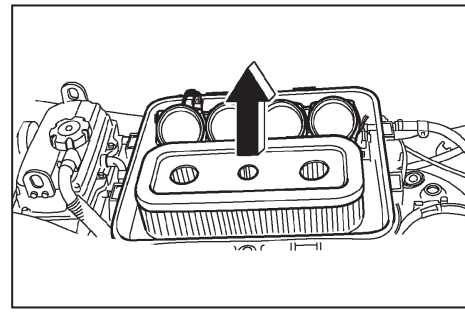
7) Repeat the flushing procedure for the other engine.

## LUBRICATION

**⚠WARNING**

**Do not spray flammable rust inhibitor on engine surfaces while the engines are hot. The sprayed substance or propellants could catch fire.**

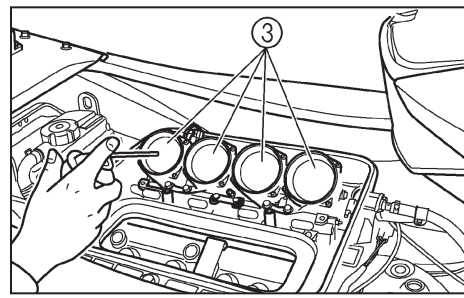


1) Open the hood (see page 2-14).

2) Remove the air filter case cover screws ①, slide the locks ② to open, and then remove the case cover.

3) Remove the air filter element.




4) Spray a rust inhibitor such as Yamaha Store-Rite Fogging Oil into each intake opening ③ for 3 seconds.

5) Install the air filter element and air filter case cover.

6) Start the engine in a well-ventilated area and let it run at idle for 15 seconds.

**CAUTION:**

**Do not run the engine for more than 15 seconds. The engine could overheat.**

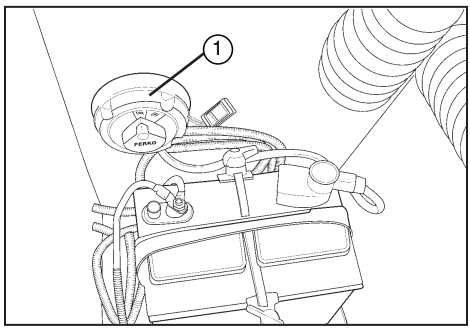
7) Grease the areas of the Sport Boat specified in “Grease Points” in the Adjustment and Maintenance section.

## BATTERY

1) If the boat will be out of use, the battery switch ① in the battery compartment can be switched to the Off position to prevent accidental draining of the battery.

**CAUTION:**

**With the battery switch in the Off position, the bilge pump will not work, even if the bilge pump switch is in the On position. The bilge could fill with water.**

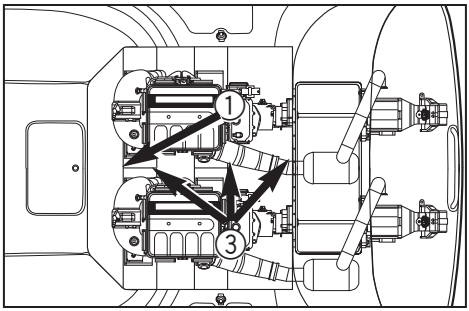


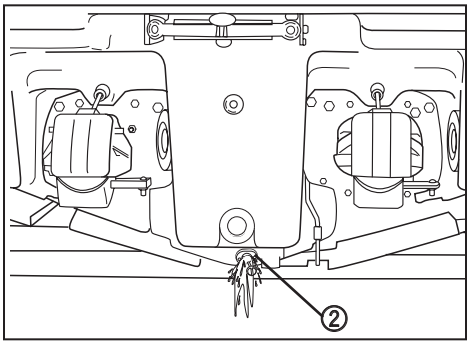

2) When the Sport Boat is not to be used for a month or more, remove the battery and store it in a cool, dark place. Clean the battery’s casing and terminals using a mixture of baking soda and water (one tbsp. of baking soda to one cup of water). apply dielectric grease or petroleum jelly to the battery terminals and to all exposed connectors.

3) If the battery will be stored for a longer period, check the specific gravity of the fluid at least once a month and recharge the battery if it gets too low.

| Specific gravity: 1.28 at 20°C (68°F) |
|---|

## CLEANING




1) Remove the fuel tank compartment drain ① and allow any water to drain into the engine compartment. Reinstall the drain plug.

**⚠WARNING**

**Gasoline and its vapors are highly flammable and explosive. If fuel or a fuel/water mix drains from the fuel tank compartment drain, wipe it up immediately with dry rags. Do not operate the boat until the source of the fuel leak is found and corrected.**

2) Remove the drain plugs in the stern ② and engine compartment ③. Wash down the hull, boat interior, and drive units with fresh water, mild natural soap, then rinse.
3) Rinse the engine and bilge areas with fresh water. Drain off all water and wipe up remaining moisture with clean, dry rags. Reinstall the drain plugs.
4) Spray the exterior of the engines with Yamaha Silicone Protectant and Lubricant or an equivalent.
5) Wax the hull with a non-abrasive wax such as Yamaha Ultra Gloss Cleaner Wax or other wax designed for marine gelcoat.

**⚠WARNING**

**Slippery surfaces can cause falls and injury. Be careful not to apply too much wax on deck and gunnel stepping surfaces. This will make them slippery.**

6) Wipe all vinyl and rubber components, such as the seats and engine compartment seals, with a vinyl protectant such as Yamaha Protectant.
7) Vacuum and or hose-off the carpeting (if equipped) as necessary. If needed, use a quality brand-name carpet cleaner product to clean soiled areas. Roll up the carpet face out for storage.

**CAUTION:**

**Always dry the carpet face up. Never roll up the carpet while wet. Never fold the carpet.**

8) Wash the fabric of the Bimini top (if equipped) with a mild natural soap in lukewarm water, then rinse. Do not use detergents. Allow to air dry thoroughly before storage. See the label on the Bimini top and the manufacturer's care instructions for more detailed information.

# ADJUSTMENT AND MAINTENANCE

Periodic inspection, adjustment, and lubrication will keep your Sport Boat in the safest and most efficient condition possible. Safety is an obligation of the Sport Boat owner. The most important points of boat inspection, adjustment and lubrication are explained on the following pages.

**⚠WARNING**

- **Be sure to turn off the engines when you perform maintenance unless otherwise specified. Otherwise, accident or injury could result from unexpected operation, moving parts, or electric shock.**
- **If the owner is not familiar with machine servicing, this work should be done by a Yamaha dealer or other qualified mechanic. Improperly serviced components could fail or stop operating correctly, which could result in an accident.**

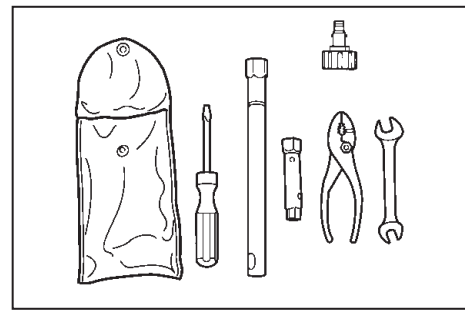
**NOTE:** A Service Manual is available through your Yamaha Dealer for owner's who have the mechanical skills, tools, and other equipment necessary to perform maintenance not covered by this Owner's Manual.

## TOOL KIT

It is advisable always to carry the Owner's Manual and tool kit with you whenever you use the boat.

**NOTE:** To protect these materials from water damage, it would be a good idea to put them in a waterproof bag. If your Owner's Manual is damaged, order a replacement from a Yamaha Dealer.

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing your own preventive maintenance and minor repairs. The tools provided in the owner's tool kit are sufficient for this purpose, except that a torque wrench is also necessary for tightening nuts and bolts properly.



**⚠WARNING**

**Do not attempt to modify this Sport Boat! Modifications to your boat may reduce safety and reliability, and may make the boat illegal for use.**

## PERIODIC INSPECTION CHART

Frequency of maintenance operations may be adjusted according to the operating conditions, but the following table gives general guidelines.

● Indicates the checkups which you may do yourself.

■ Indicates work to be done by your Yamaha dealer.

| Maintenance interval | | Initial | | | Thereafter Every | | Page |
|---|---|---|---|---|---|---|---|
| | | 10 hours | 50 hours | 100 hours | 100 hours | 200 hours | |
| | | | 6 months | 12 months | 12 months | 24 months | |
| Spark plug | Inspection/Cleaning/ Adjustment | ● | ● | ● | ● | | 4-7 |
| Grease points | Greasing | | | ● | ● | | 4-8 |
| Bearing housing | Greasing | ■ *1 | | ● *2 | ● *2 | | 4-9 |
| Fuel system | Inspection | | | ■ | ■ | | 4-10 |
| Fuel filter | Checking/Replacement | | | ■ | ■ | | |
| Fuel pump screen | Cleaning | | | ■ | ■ | | |
| Engine oil | Replace | ■ | | ■ | ■ | | |
| Engine oil filter | Replace | | | | | ■ | |
| Trolling speed (idle) | Adjustment | | | ● | ● | | |
| Throttle shaft | Inspection | | | ■ | ■ | | |
| Cooling-water passages | Cleaning/Flushing | ● (after every use) | | | | | 4-1 |
| Bilge strainer | Cleaning | | ● | ● | ● | | |
| Impeller | Inspection | | ■ | ■ | ■ | | |
| Steering cable | Inspection | | | | | ● | 4-13 |
| Throttle cable and choke cable | Inspection/Adjustment | | | ● | ● | | 4-14 |
| Reverse gate mechanism | Inspection | | | ● | ● | | 4-14 |
| Drain plugs | Inspection/Replacement | | | | | ● | |
| Battery | Inspection | ● (inspect fluid level before every launch) | | | | | 4-15 |
| Rubber coupling | Inspection | | | | | ■ | |
| Bolts and nuts | Retightening | ■ | | ■ | ■ | | |

*1 Grease capacity: 33.0 ~ 35.0 cc (1.11 ~ 1.18 oz.)

*2 Grease capacity: 6.0 ~ 8.0 cc (0.20 ~ 0.27 oz.)

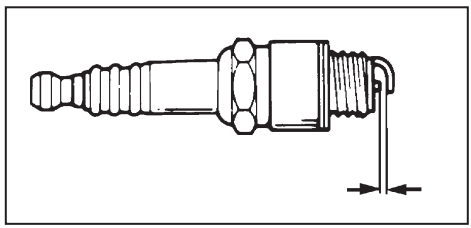
## SPARK PLUG CLEANING AND ADJUSTMENT

The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate something about the condition of the engine. For example, if the center electrode porcelain is very white, this could indicate an intake air leak or carburetion problem in that cylinder.

Do not attempt to diagnose any problems yourself. Instead, take the Sport Boat to a Yamaha Sport Boat dealer. You should periodically remove and inspect the spark plug because heat and deposits will cause the spark plug to slowly break down and erode. If electrode erosion becomes excessive, or if carbon and other deposits are excessive, you should replace the spark plug with another of the correct type.

Standard spark plug:
CR9EB

Before installing the spark plug, measure the electrode gap with a wire thickness gauge; adjust the gap to specification if necessary.



Spark plug gap: 0.7~0.8mm
(0.028~0.031 in)

When fitting the plug, always clean the gasket surface and use a new gasket. Wipe off any dirt from the threads and screw in the spark plug to the correct torque.

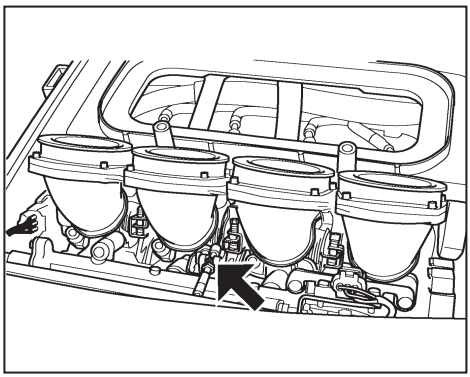
Spark plug torque:
13 Nm (1.3 m-kg, 9.4 ft-lb)

**NOTE:** Before installing the spark plug cap, be sure to wipe off any water on the spark plug or inside the cap. Push the spark plug cap down until it clicks.

**NOTE:** If a torque-wrench is not available when you are fitting a spark plug, a good estimate of the correct torque (with a new gasket) is 1/4 to 1/2 turn past finger-tight. Have the spark plug adjusted to the correct torque as soon as possible with a torque wrench.

**⚠WARNING**

**When removing or installing a spark plug, be careful not to damage the insulator. A damaged insulator could allow external sparks, which could lead to explosion or fire.**

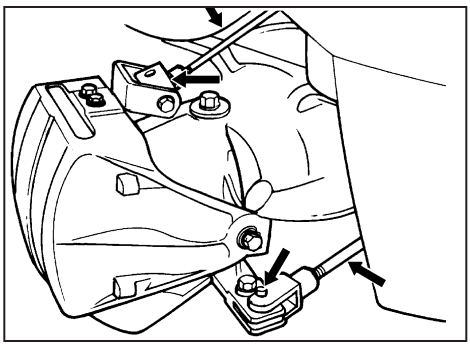


## GREASE POINTS

To keep moving parts sliding or rotating smoothly, coat them with water resistant grease such as Yamaha Marine Grease, Yamaha Grease A, or an equivalent.

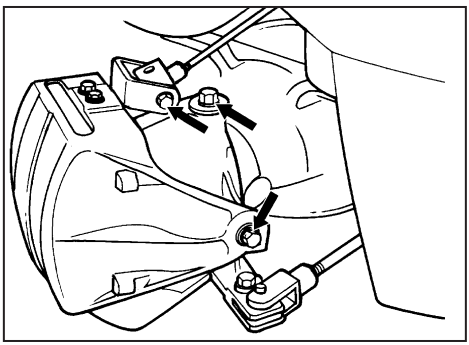
### Throttle Cable

Grease the throttle-cable inner wires at the carburetors.



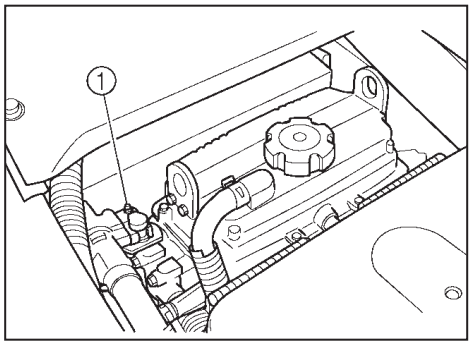
### Steering Cable Ball Joints and Inner Wire

Grease the steering cable and shift cables ball joints at the steering nozzles. Extend the steering cable and shift cable inner wires and apply a thin coat of grease to them.



### Pivot Points

Grease all pivot points of the steering and shift mechanism at the pump end.

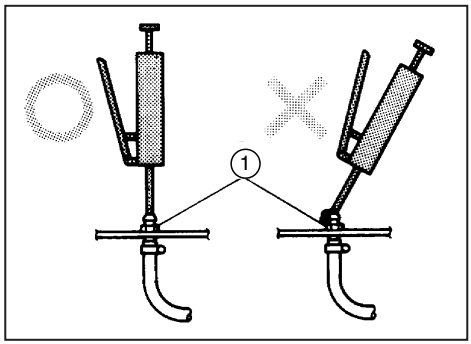



**Bearing Housing**

① Bearing housing grease nipple

Grease the bearing housing through the grease nipple.

Recommended water-resistant grease:
Yamaha Marine Grease, or
Yamaha Grease A




The first service should be done after 10 hours or 1 month by your Yamaha dealer.

Fill the bearing housing with water resistant grease through the grease nipple.

Grease capacity: 33.0~35.0 cc (1.11~1.18 oz)

After first service: Every 100 hours or 6 months (you may do this yourself)

Grease capacity: 6.0~8.0 cc (0.20~0.27 oz)

**CAUTION:**

**Fill the grease slowly and carefully, because it can damage the hose and the joints.**

## FUEL SYSTEM INSPECTION

**⚠WARNING**

**Gasoline is highly flammable and explosive. Failure to check for and repair any fuel leakage could result in fire or explosion. A fire or explosion can cause severe injury or death.**

**When inspecting the fuel system, shut off the engine, do not smoke, and avoid spilling gasoline.**

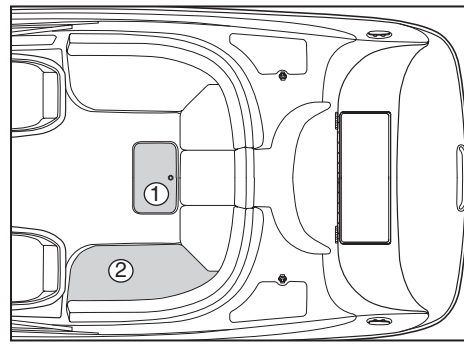
**Fuel in hose is pressurized. Fuel can spray out and cause injury or a fire hazard if fuel line is disconnected.**

**Do not attempt to run engine with fuel line disconnected.**

Check the fuel system for leaks, cracks, or malfunctions. If any problem is found, consult a Yamaha dealer.

**Checking points:**
1. Fuel tank leakage
2. Fuel hose joint leakage
3. Fuel hose cracks or other damage
4. Fuel filler clamps and hoses
5. Fuel tank cap (seal) for damage

The United States Coast Guard requires that all inboard boats like your Sport Boat have visual access to fuel filler clamps and hoses. The Sport Boat has two access points for this purpose.




One access point is the hatch ① in the floor directly in front of the rear seats. Lift the latch to open the hatch. The other access point is inside ② the portside storage compartment. Remove the seat cushion then look up inside the compartment to see the fuel filler hose and clamp.

## FUEL TANK

If the fuel tank needs to be cleaned or when any water is found in the fuel system, take the Sport Boat to your Yamaha dealer for service.

## ENGINE OIL

**⚠WARNING**

**Engine oil is extremely hot after the engine is turned off. Coming into contact with or getting any engine oil on your clothes could result in burns.**

**CAUTION:**

- **Be sure the engine has enough oil but do not overfill. If there is too little oil, the engine can be damaged. If there is too much oil, the air filter can become saturated with oil, permanently damaging the filter and reducing engine performance.**
- **Be sure to change the engine oil after the first 10 hours of operation, and every 100 hours thereafter or at the start of a new season, otherwise the engine will wear quickly.**
- **The oil filter should be replaced every two years or every 200 hours of operation. Have a Yamaha dealer replace the oil filter when necessary.**

It is recommended to have a Yamaha dealer change the engine oil. However, if you choose to change the oil on your own and you have the special equipment necessary to do so, refer to the service manual for this Sport Boat.

**NOTE:** Dispose of used oil according to local regulations.

**CAUTION:**

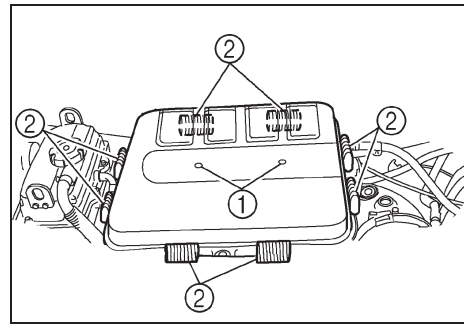
**If oil is leaking or the oil-pressure warning indicator comes on when the engine is running, immediately turn the engine off and have a Yamaha dealer check the Sport Boat. Continuing to operate under such conditions could cause severe engine damage.**

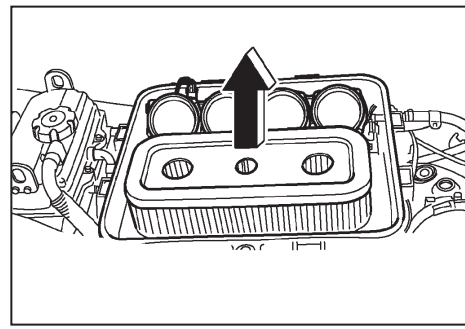
## AIR FILTER

The air filter element should be checked every 12 months or every 100 hours of operation.

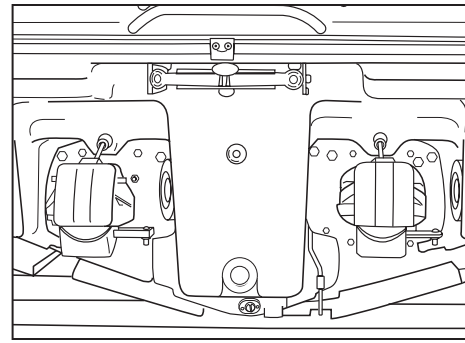
To check the air filter:

1) Open the hood (see page 2-14).
2) Remove the air filter case cover screws ①, slide the locks ② to open, and then remove the case cover.
3) Remove the air filter element. Check it for dirt and oil. Replace the air filter every 2 years or every 200 hours of operation, or if it becomes contaminated with dirt or oil.



## STEERING CABLE INSPECTION



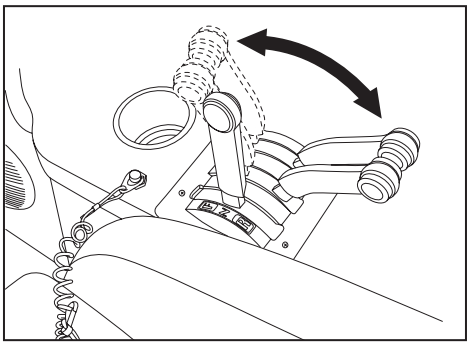
Be sure to check:

1) Check for smooth operation of the wheel and steering nozzles.
2) Check for proper steering adjustment. The nozzles should both point straight back when the steering wheel is centered.

If steering is stiff or misadjusted, ask your Yamaha dealer to service it.

## THROTTLE CABLE INSPECTION

Push and pull the throttle levers through their full range with the shift lever in Neutral. Repeat with the shift lever in Forward, and again in Reverse. Both throttle levers should move smoothly from idle to full throttle and back. If not, ask your Yamaha Sport Boat dealer for service.

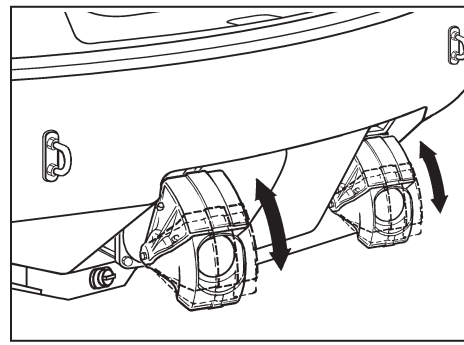


**⚠WARNING**

**Improper throttle operation could result in an accident. Check for proper throttle operation before starting the engines.**

## REVERSE GATE MECHANISM INSPECTION

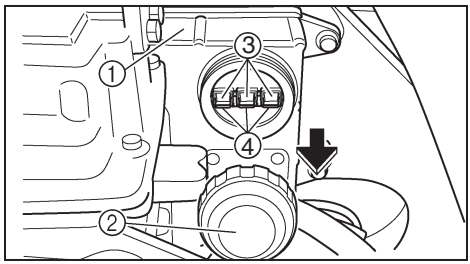
1) Remove the engine stop switch lanyard and ignition keys.
2) Put the throttle levers in the idle position (otherwise the shift lever will not move).
3) Push the shift lever to Forward from the Neutral position while a second person observes shift gate movement from outside the boat. Both shift gates should lift completely to the stops.



4) Pull the shift lever back from Forward through Neutral to Reverse. The observer should check for proper movement of the shift gates. Both gates should drop down over the nozzles to the stops.

If reverse gates do not operate smoothly or correctly, ask your authorized Yamaha Sport Boat dealer for service.

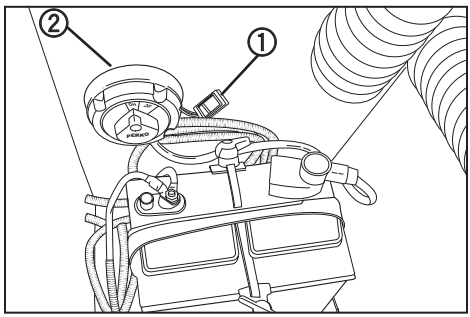
## FUSE REPLACEMENT




The fuse is in the ignition coil holder. To replace the fuse, unscrew the cap and pull the two red leads out with the fuse holder. Open the fuse holder and replace the fuse.

① Ignition coil holder ③ Fuse (10A)
② Cap ④ Fuse holder

### Accessory Fuse




① Fuse (20A)
② Battery switch

The fuse is on the red lead wire coming from the battery switch. Open the fuse box and replace the fuse.

**⚠WARNING**

**Do not use fuses of higher amperage that those recommended. Substitution of a fuse of improper rating can cause extensive electrical system damage and possible fire.**

## BATTERY

**NOTE:** These general guidelines apply to many commonly used battery types (but not, for example, to maintenance-free batteries). Consult the battery manufacturer's instructions before performing battery maintenance.

Check the level of the battery fluid and see if the terminals are tight. Add distilled water if the fluid level is low.

**CAUTION:**

- **Be careful not to place the battery on its side.**
- **Remove the battery from the boat before adding distilled water or recharging.**

**⚠WARNING**

**Battery electrolyte is poisonous and dangerous, causing severe burns, etc. It contains sulfuric acid. Avoid contact with skin, eyes or clothing.**

**Antidote:**

**EXTERNAL – Flush with water.**

**INTERNAL – Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately.**

**EYES – Flush with water for 15 minutes and get prompt medical attention.**

**A battery produces explosive gases. Keep sparks, flame, cigarettes, etc., away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.**

**KEEP OUT OF REACH OF CHILDREN.**

**Replenishing the Battery Fluid**

A poorly maintained battery will deteriorate quickly. The battery fluid should be checked before every outing.

Fill to the manufacturer's recommended level when necessary. Top up only with distilled water (or pure de-ionized water) suitable to use in batteries.

**CAUTION:**

**Normal tap water contains minerals which are harmful to a battery; therefore, refill only with distilled water.**

**Recharging**

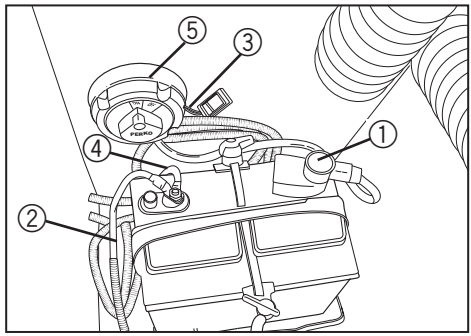
**⚠WARNING**

- **When charging the battery, keep it well away from sparks and open flames, as it gives off explosive gases.**
- **When using a battery charger, connect the battery to the charger before you turn on the charger. This will prevent sparking at the terminals that could ignite battery gases.**
- **If jump-starting the engine is necessary in an emergency, follow the instructions on page 5-4. Improper jump-starting could cause sparking and explosion.**

1) Remove the caps from the cells. Add distilled water if necessary to top up the electrolyte to the proper level.
2) Follow the battery manufacturer's instructions for charging.

**Connecting the Battery Terminals**

Always make sure the connections are correct when you install the battery in the Sport Boat. Make sure that the breather pipe is properly connected and that it is not damaged or obstructed.




① Positive (+) Battery cable (Red)
② Negative (–) Battery cable (Black)
③ Accessory (+) Lead (Red/Black)
④ Accessory (–) Lead (Black)
⑤ Battery Switch

**CAUTION:**

**BATTERY REMOVAL: Disconnect battery leads before removing the battery. Disconnect the negative (–) lead first.**

**BATTERY INSTALLATION: Connect the red (+) lead and accessory red (+) lead to the positive (+) terminal of the battery. Connect the black (–) lead and the black (–) accessory lead to the negative (–) terminal of the battery.**

**Battery Switch**

This model includes a battery disconnect switch. Turn this switch to the Off position when you want to be sure no battery power is available, such as during storage to prevent accidental discharge of the battery or during service work.

**CAUTION:**

**With the battery switch in the Off position, the bilge pump will not work, even if the bilge pump switch is in the On position. The bilge could fill with water.**

# SPECIFICATIONS

| ITEM \ MODEL | UNIT | SRT1000-B/C-B |
|---|---|---|
| **VEHICLE CAPACITY** | | |
| Maximum people on board | Number of people | 10 |
| Maximum load capacity | lb. | 1800 |
| **DIMENSIONS** | | |
| Length | feet / inches | 23' / 2761" |
| Beam | feet / inches | 8.53' /102.4" |
| Draft | inches | 18" |
| Dry weight | lb. | 3025 |
| Height on trailer | feet / inches | 6.92' / 83" |
| **PERFORMANCE** | | |
| Maximum output | HP (kW) / rpm | 140 (103) @ 10,000 |
| Maximum fuel consumption | US gal/h (L / h) | 11.6 gal (44) |
| Cruising range (full throttle) | hr. | 2.2 |
| **ENGINE** | | |
| Number of engines | | 2 |
| Engine type | | 4-stroke |
| Number of cylinder | | 4 cylinders each engine |
| Displacement | cc (cu. in) | 998 (60.9) each engine |
| Bore & stroke | mm (in.) | 74 x 58 (2.91 x 2.28) |
| Compression ratio | | 11.4:1 |
| Lubrication system | | Dry sump |
| Cooling system | | Water-cooled |
| Starting system | | Electric starter |
| Ignition system | | TCI |
| Spark plug | | NGK CR9EB |
| Spark plug gap | mm (in.) | 0.7 ~0.8 mm (0.028"~0.031") |
| Recommended battery | Qty: 1 | Marine Grade Group 24 Dual Purpose<br>675 Marine Cranking Amp |
| Battery capacity | Voltage - Amp Hours | 12 -100 |
| Charging system | | Flywheel magneto |
| **DRIVE UNIT** | | |
| Propulsion system | | Jet pump |
| Jet pump type | | Axial flow, single stage w/reverse |
| Impeller rotation | | Counter clockwise (rear view) |
| Impeller pitch | | Port 16.3° / Starboard 17.3° |
| Transmission | | Direct drive from engine |
| Steering (nozzle) angle | | 23° + 1° |
| **FUEL AND OIL** | | |
| Fuel | | Regular unleaded gasoline |
| Recommended engine oil | API<br>SAE | 4-stroke motor oil<br>SE, SF, SG, SH, or SJ<br>10W-30 |
| Fuel tank capacity | US gal (L) | 50.0 gal (189 L) |
| Oil tank capacity | US qt (L) | 4.5 qt (4.3 L) Each engine |

# Chapter 5
# TROUBLESHOOTING & SPECIAL PROCEDURES

**TROUBLESHOOTING** . . . . . 5-1
Troubleshooting Chart . . . . . 5-1

**SPECIAL PROCEDURES** . . . . . 5-3
Towing the Sport Boat . . . . . 5-3
Running on One Engine . . . . . 5-3
Jump Starting . . . . . 5-4
Jet Pump Clean-Out Procedure . . . . . 5-5

# TROUBLESHOOTING

If any trouble happens on your Sport Boat, use this section to check for possible cause. If you cannot find the cause or if the procedure for replacement or repair is not described in this owner's manual, ask your Yamaha Sport Boat dealer or qualified mechanic for the proper service.

The Troubleshooting Chart contains “TROUBLE,” “POSSIBLE CAUSE,” “REMEDY,” “REFER PAGE.”

Check the possible cause and remedy, and also the referred page for the maintenance steps to solve the trouble.

## TROUBLESHOOTING CHART

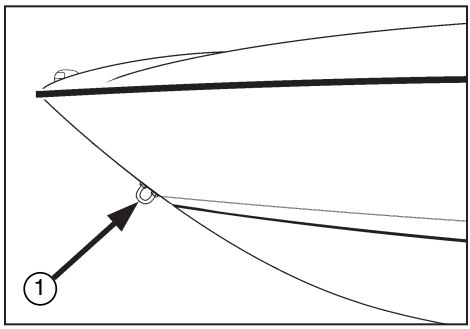
| TROUBLE | POSSIBLE CAUSE | | REMEDY | Page |
|---|---|---|---|---|
| • **Starter motor does not turn over** | • Fuse | Burned out | • Replace the fuse and check wiring | 4-15 |
| | • Battery | Run down | • Recharge | 4-16 |
| | | Poor terminal connections | • Tighten as required | 4-16 |
| | | Battery switch off | • Turn on switch | 4-17 |
| | • Jet pump cleanout hatch | Not latched | • Latch securely | 5-5 |
| | • Starter component | Faulty | • Have serviced at Yamaha dealer | |
| | • Shift lever | Not in Neutral | • Shift to Neutral | 2-7 |
| • **Starter motor turns over/ engine does not start** | • Engine shut-off switch | Clip on cord is not in place | • Install clip in engine shut-off switch | 2-6 |
| | • Fuel | Empty | • Refill as soon as possible* | 3-3 |
| | | Stale or contaminated | • Have serviced at Yamaha dealer | |
| | • Fuel tank | Water or dust collected | • Have service at Yamaha dealer | |
| | | Built-up pressure | • Open the fuel tank filler cap and release pressure | 3-14 |
| | • Spark plug | Fouled or defective | • Clean or replace | 4-7 |
| | • Spark plug cap | Not fitted or loose | • Fit properly | 4-7 |
| | • Crankcase | Filled with fuel | • Have serviced at Yamaha Dealer | |
| | | Filled with water | • Crank engine with spark plug out until clean | |
| | • Fuel filter | Clogged or water collected | • Have serviced at Yamaha Dealer | |

| TROUBLE | POSSIBLE CAUSE | | REMEDY | Page |
|---|---|---|---|---|
| **Engine runs irregularly or stalls** | • Fuel | Empty | • Refill as soon as possible | 3-2 |
| | | Stale or contaminated | • Have serviced at Yamaha dealer | |
| | • Fuel filter | Water or dust collected | • Have serviced at Yamaha dealer | |
| | • Spark plug | Fouled or defective | • Replace | 4-7 |
| | | Incorrect heat range | • Replace | 4-7 |
| | | Gap incorrect | • Adjust | 4-7 |
| | • Spark plug cap | Loose | • Fit properly | 4-7 |
| | | Loose electrical connections | • Tighten or connect properly | 4-7 |
| | | Cracked, torn or damaged | • Replace | |
| **Engine won't run over 3,000 rpm** | • Engine overheat** | Jet intake clogged | • Clean | 5-5 |
| | | Cooling system clogged | • Clean | 4-1 |
| **Sport Boat speed too slow or loses power** | • Cavitation | Jet intake clogged | • Clean | 5-5 |
| | • Engine overheat** | Jet intake clogged | • Clean | 5-5 |
| | | Cooling system clogged | • Clean | 4-1 |
| | • Fuel Filter | Clogged | • Have serviced at Yamaha dealer | |
| | • Spark plug | Fouled or defective | • Replace | 4-7 |
| | | Incorrect heat range | • Replace | 4-7 |
| | | Gap incorrect | • Adjust | 4-7 |
| | • Spark plug caps | Loose | • Fit properly | 4-7 |
| | • Fuel | Stale or contaminated | • Have serviced at Yamaha dealer | |

** Engine speed will be limited to 3,500 rpm by the overheat warning device.

# EMERGENCY PROCEDURES

## TOWING THE SPORT BOAT




① Bow eye

The Sport Boat should be towed only if it becomes inoperative.

The towing rope should be long enough so that the Sport Boat will not collide with the towing boat when slowing down. A good rule of thumb is a tow rope which is three times the combined length of the towing boat and the Sport Boat.

Tow the Sport Boat using the bow eye only. Tow the boat at a “no wake” speed.

**CAUTION:**

**Do not tow the Sport Boat at speed fast enough to leave a wake. Severe engine damage could result because water can flood the non-operating engines through the cooling water intake.**

**⚠WARNING**

**The operator of the towing boat must keep speed to a minimum and avoid traffic or obstacles which could be a hazard to the driver on the Sport Boat.**

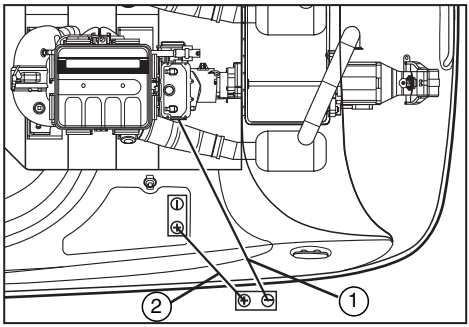
## RUNNING ON ONE ENGINE

If one engine becomes inoperative, the properly running engine can be used to return to shore. Operate at a “no wake” speed to prevent water from flooding the non-operating engine through the cooling water intake.

**CAUTION:**

**Do not operate the Sport Boat above a “no wake” speed with just one engine. Severe engine damage could result because water can flood the non-operating engines through the cooling water intake.**

## JUMP STARTING




① Negative (–) jumper cable

② Positive (+) jumper cable

If the boat battery runs down, the engines can be started in an emergency using a 12-volt battery and jumper cables.

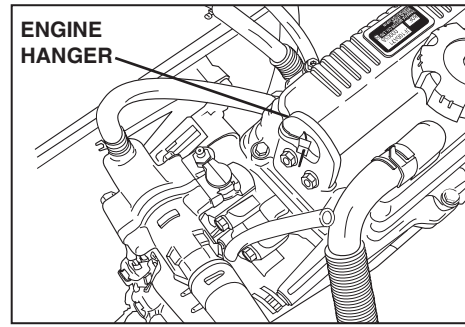
**⚠WARNING**

**SEVERE INJURY OR DEATH MAY RESULT IF YOU IGNORE ANY OF THE FOLLOWING:**

- **If blower will not operate, ventilate engine compartment by opening engine compartment hatch for several minutes before attempting jump starting.**
- **Do not connect the negative (–) jumper cable to the negative (–) terminal of the dead battery. Sparks could ignite battery or fuel vapors, which could cause an explosion.**

To connect the jumper cables:

1) Connect the positive (+) terminal of the dead battery to the positive terminal (+)of the booster battery with the positive jumper cable.
2) Connect one end of the negative (–) jumper cable to the negative (–) terminal of the booster battery.
3) Connect the other end of the negative (–) cable to an engine hanger on either side of the engine oil tank.




**CAUTION:**

**Be sure all connections are secure and correct before attempting to start the engine. Any wrong connection may damage the electrical system.**

4) Start the engine, then disconnect the cables by reversing the above steps.

**CAUTION:**

**Do not turn the starter motor for more than 5 seconds. If the engine does not start in 5 seconds, release the starter switch and try again after 15 seconds. Continuous cranking for more than 5 seconds will discharge the battery and the engine will not start. The starter motor may also be damaged if it is engaged continuously for more than five seconds.**

## JET PUMP CLEAN-OUT PROCEDURE

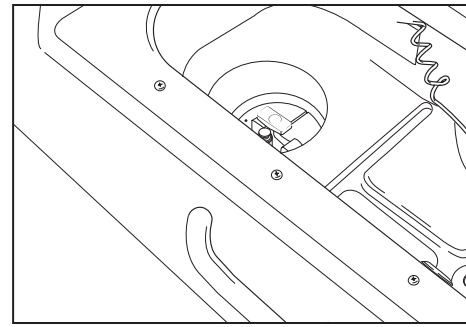
**⚠WARNING**

**SEVERE INJURY OR DEATH MAY RESULT IF YOU IGNORE ANY OF THE FOLLOWING:**

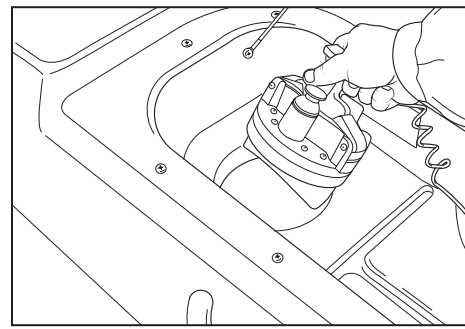
- **Turn off and remove both ignition keys, remove lanyard, and wait for all movement to stop before removing access port caps.**
- **Never override interlocks to run engine with hatch open.**
- **The impeller has sharp edges. Be careful when reaching into jet pump area.**

If weeds or debris get caught in the intake or impeller, cavitation can occur, and though the engine speed rises, forward thrust will decrease. If this condition is allowed to continue, pump damage can occur and the engines may overheat and seize. If there is any sign that the jet intake or impeller is clogged with weeds or debris, follow this cleanout procedure.

1) Turn off and remove ignition keys, remove lanyard, and wait for all movement to stop.
2) Lift the hatch on the rear platform.

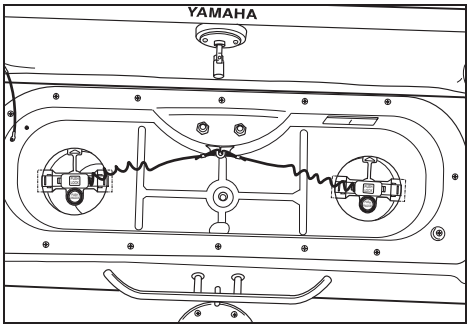


3) Check that the retaining cord is securely attached to the cap and retaining strap. Press the release button and lift the cap up out of the port. Set the cap where it cannot be accidentally knocked overboard.



4) Remove any weeds or debris from the drive shaft, impeller, pump housing, and steering nozzle. If you cannot remove the debris, consult your Yamaha Sport Boat Dealer.
5) To reinstall the access port cap, first clean off any sand or other foreign matter from the cap or port surfaces. Insert the cap so that its projection faces the bow and lines up with the slot in the access port wall.

6) Press the T-handle down firmly to lock the cap in place. Pull up forcefully on the handle to be sure it is locked. If a strong pull will move the handle, it is not locked securely – the cap could be forced out by water pressure during operation.




**CAUTION:**

- **Be sure the caps are locked securely in place. Otherwise the cap could be forced out of the access ports by water pressure, causing loss of performance and possible damage.**
- **The hatch cover has interlocks to shut off the engines should the hatch be accidentally opened during operation. The engines will not restart unless the hatch is closed and latched.**

# Chapter 6
# CONSUMER INFORMATION & INDEX

LIMITED WARRANTY . . . . . 6-1

YAMAHA EXTENDED SERVICE (Y.E.S) . . . . . 6-4

BOATING TERMS . . . . . 6-5

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## YAMAHA MOTOR CORPORATION, U.S.A.
## SPORT BOAT LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants that new Yamaha Sport Boats will be free from defects in materials or workmanship for the period of time stated herein, subject to certain stated limitations.

**PERIOD OF WARRANTY:** The hull and deck on any new Yamaha Sport Boat purchased for pleasure use from an authorized Yamaha Sport Boat dealer in the United States will be warranted against major structural defects for a period of five (5) years in pleasure use, or for one (1) year in commercial applications. All other Yamaha Sport Boat components will be warranted against defects in material or workmanship, subject to exclusions noted herein, for a period of one (1) year from date of purchase in pleasure use, or ninety (90) days from the date of purchase in commercial applications.

Replacement parts used in warranty repairs will be warranted for the balance of the applicable warranty period.

The warranty described here applies to Sport Boats purchased and registered for use in the United States only. For warranty provisions outside the United States, contact that particular country's local Yamaha distributor.

**OBTAINING REPAIRS UNDER WARRANTY:** During the period of warranty, any authorized Yamaha Sport Boat dealer will, free of charge, repair or replace, at Yamaha's option, any parts adjudged defective by Yamaha due to faulty workmanship or material from the factory. All parts replaced under warranty will become the property of Yamaha Motor Corporation, U.S.A.

**CUSTOMER'S RESPONSIBILITY:** Under the terms of this warranty, the customer will be responsible for ensuring that the Sport Boat is properly operated, maintained, and stored as specified in the applicable Owner's Manual.

The owner of the Sport Boat shall give notice to an authorized Yamaha Sport Boat dealer of any and all apparent defects within ten (10) days of discovery and make the boat available at that time for inspection and repairs at the dealer's place of business.

**GENERAL EXCLUSIONS FROM WARRANTY:** This warranty will not cover the repair of damage if the damage is a result of abuse or neglect of the product. Examples of abuse and neglect include, but are not limited to:

1. Racing or competition use, modification of original parts, abnormal strain.
2. Lack of proper maintenance and off season storage as described in the Owner's Manual, installation of parts or accessories that are not equivalent in design and quality to genuine Yamaha parts.
3. Use of lubricants, oils, and fuel/oil mixtures that are not suitable for Sport Boat motor use.
4. Damage as a result of accidents, collisions, contact with foreign materials, or submersion.
5. Growth of marine organisms on motor or hull surfaces.
6. Normal deterioration.
7. Gel coat stress cracks.

**SPECIFIC PARTS EXCLUDED FROM WARRANTY;** Parts replaced due to normal wear or routine maintenance such as oil, spark plugs, fuel filters, impeller and liner, and anodes are not covered by warranty. Charges for transporting the Sport Boat to and from an authorized Yamaha Sport Boat dealer are excluded from warranty coverage.

**TRANSFER OF WARRANTY:** Transfer of the warranty from the original purchaser to any subsequent purchaser is possible by having the boat inspected by an authorized Yamaha Sport Boat dealer and requesting the dealer to submit a change of registration to Yamaha Motor Corporation, U.S.A. within ten (10) days of the transfer.

***YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.***

***SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.***

***THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.***

**YAMAHA MOTOR CORPORATION, U.S.A.**
**Post Office Box 6555**
**Cypress, California 90630**

**WARRANTY QUESTIONS AND ANSWERS**

Q. What costs are my responsibility during the warranty period?

A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident and collision damages.

Q. What are some examples of "abnormal" strain, neglect, or abuse?

A. These terms are general and overlap each other in areas. Specific examples include: Running the Sport Boat out of oil, operating the boat with a broken or damaged part which causes another part to fail, and so on. If you have any specific questions on operation or maintenance, please contact your Yamaha Sport Boat dealer for advice.

Q. Does the warranty cover incidental costs such as transportation due to a failure?

A. No. The warranty is limited to repair of the Sport Boat itself.

Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?

A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by a Yamaha Sport Boat dealer.

Q. Will the warranty be void or cancelled if I do not operate or maintain my new Sport Boat exactly as specified in the Owner's Manual?

A. No. The warranty on a new Sport Boat cannot be "voided" or "cancelled." However, if a particular failure is caused by operation or maintenance other than as shown in the Owner's Manual, that failure may not be covered under warranty.

Q. What responsibility does my dealer have under this warranty?

A. Each Yamaha Sport Boat dealer is expected to:
1. Completely set up each new Sport Boat before sale.
2. Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date. In addition, each Yamaha Sport Boat dealer is held responsible for his setup, service and warranty repair work.

Q. Is the warranty transferable to second owners?

A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha Sport Boat dealer for the policy to remain effective.

**CUSTOMER SERVICE**

If your Sport Boat requires warranty service, you must take it to any authorized Yamaha Sport Boat dealer within the United States. Be sure to bring your warranty registration card or other valid proof of the original date of purchase. If a question or problem arises regarding warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. If you are still not satisfied and require additional assistance, please write:

YAMAHA MOTOR CORPORATION, U.S.A.
CUSTOMER RELATIONS DEPARTMENT
P.O. Box 6555
Cypress, California 90630

**CHANGE OF ADDRESS**

The federal government requires each manufacturer to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is compiled from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase.

If you should move after you have purchased your new Sport Boat, please advise us of your new address by sending a postcard listing your Yamaha model name, engine number, dealer number [or dealer's name] as it is shown on your warranty card, your name and new mailing address.

Mail to:

YAMAHA MOTOR CORPORATION, U.S.A.
WARRANTY DEPARTMENT
P.O. Box 6555
Cypress, California 90630

This will ensure that Yamaha Motor Corporation, U.S.A. has an up-to-date registration record in accordance with federal law.

Keep your Yamaha Sport Boat protected even after the 1-year warranty coverage provisions expire with genuine Yamaha Extended Service (Y.E.S.).

Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.

- Y.E.S. is flexible. You choose the plan that's right for you: 12 months, 24 months, or 36 months beyond the 1-year warranty coverage period. That means you can get up to 5 years of coverage on the power train, controls, and other components to match the comforting 5-year standard protection on the hull.
- Y.E.S. is designed and administered by the same Yamaha people who handle your warranty – and it shows in the comprehensive coverage benefits. There are no limitations on hours of use. Coverage isn't limited to “moving parts” or the “drive train” like many other plans. And Y.E.S. covers manufacturing defects just like the warranty. See the sample contract at your Yamaha dealer to see how comforting uninterrupted factory-backed protection can be.
- You don't have to pay anything for covered repairs. There's no deductible to pay, and repairs aren't “prorated.” You don't have any “out-of-pocket” expenses for covered repairs.
- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to $150 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle rental, emergency towing, phone calls, even food and lodging when you are away from home. This superb coverage goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well as covered repairs during your entire Y.E.S. plan period.
- Y.E.S. coverage is honored at any authorized Yamaha dealer nationwide.
- Y.E.S. coverage is transferrable to a new owner if you sell or trade-in. That can make your Yamaha Sport Boat much more valuable!

This excellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while your Yamaha is still within the first year of the Yamaha Limited Warranty period. So visit your authorized Yamaha dealer to get all the facts. He can show you how easy it is to protect your investment with Yamaha Extended Service. We urge you to act now. You'll get the excellent benefits of TRIP coverage right away, and you'll rest easy knowing you'll have strong factory-backed protection even after your Yamaha Limited Warranty expires. See your dealer today!

A special note:

If visiting your dealer isn't convenient, contact Yamaha with your Primary ID number or Hull Identification Number. We'll be happy to help you get the Y.E.S. coverage you need.

Yamaha Service Marketing
P.O. Box 6555
Cypress, CA 90630
1-(866)-YES-EXTD
(1-866-937-3983)

# BOATING TERMS

| TERM | DEFINITION |
|---|---|
| **Bow** | The front part of the boat. |
| **Deck** | The “floor” or upper structure which covers the hull. |
| **Give-Way** | The vessel which must yield the right-of-way when two boats meet. |
| **Gunwale** | The meeting junction of the deck and hull; the upper edge around the boat. Pronounced “gun’l” |
| **Hatch** | An opening in the deck which provides access below. |
| **Helm** | The steering console. |
| **Hull** | The basic part of the boat; the under side. |
| **Lanyard** | The cord or tether that connects the operator to the engine stop switch so the engines will stop if the operator accidentally leaves the helm. |
| **PFD** | A Personal Flotation Device, also known as a “life jacket.” |
| **Planing** | Traveling at a speed fast enough so the boat has leveled out and is skimming on top of the water. There is a wake. |
| **Port** | The left side of the boat. |
| **Stand-On** | The vessel with the right-of-way when two boats meet. |
| **Starboard** | The right side of the boat. |
| **Stern** | The back part of the boat. |
| **Sub-Planing** | Traveling at a medium speed. The bow of the boat is out of the water, but you are still traveling through the water. There is a wake. |
| **Transom** | The vertical part of the stern. |
| **Trolling** | Traveling at idle speed, using little or no throttle. The boat is down in the water and it is not leaving a wake. |
| **Wake** | The visible track of disturbed water that the boat leaves behind as it moves in the water. |

# SAMPLE FLOAT PLAN

Leave a float plan with a responsible person on shore before boating. The example below can be copied and used.

## FLOAT PLAN

| VESSEL INFORMATION | | | |
|---|---|---|---|
| BOAT MAKE: | **Yamaha** | MOTOR TYPE: | **Jet** |
| MODEL: | | | |
| LENGTH.: | | REGISTRATION NO**:** | |
| DECK COLOR: | | HULL COLOR: | |

| PASSENGER | |
|---|---|
| OPERATOR<br>ADDRESS: | EMERGENCY PHONE: |
| PASSENGER #1:<br>ADDRESS: | EMERGENCY PHONE: |
| PASSENGER #2:<br>ADDRESS: | EMERGENCY PHONE: |
| PASSENGER #3:<br>ADDRESS: | EMERGENCY PHONE: |
| PASSENGER #4:<br>ADDRESS: | EMERGENCY PHONE: |

| DEPARTURE INFORMATION | | |
|---|---|---|
| POINT OF DEPARTURE: | | DATE/TIME: |
| TOW VEHICLE<br>MAKE/MODEL | LICENSE: | TRAILER LICENSE: |

| DESTINATION INFORMATION | | |
|---|---|---|
| DESTINATION: | LORAN OR GPS COORDINATES: | INTENDED ACTIVITY: |
| | | |
| | | |
| | | |
| EXPECTED RETURN | DATE: | TIME: |

| | | |
|---|---|---|
| **LOCAL U.S. COAST GUARD PHONE #:** | | |
| NOTES: | HULL COLOR: | |
| OPERATOR<br>ADDRESS: | | EMERGENCY PHONE: |
| PASSENGER #1:<br>ADDRESS: | | EMERGENCY PHONE: |

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